FIG.1 (a)

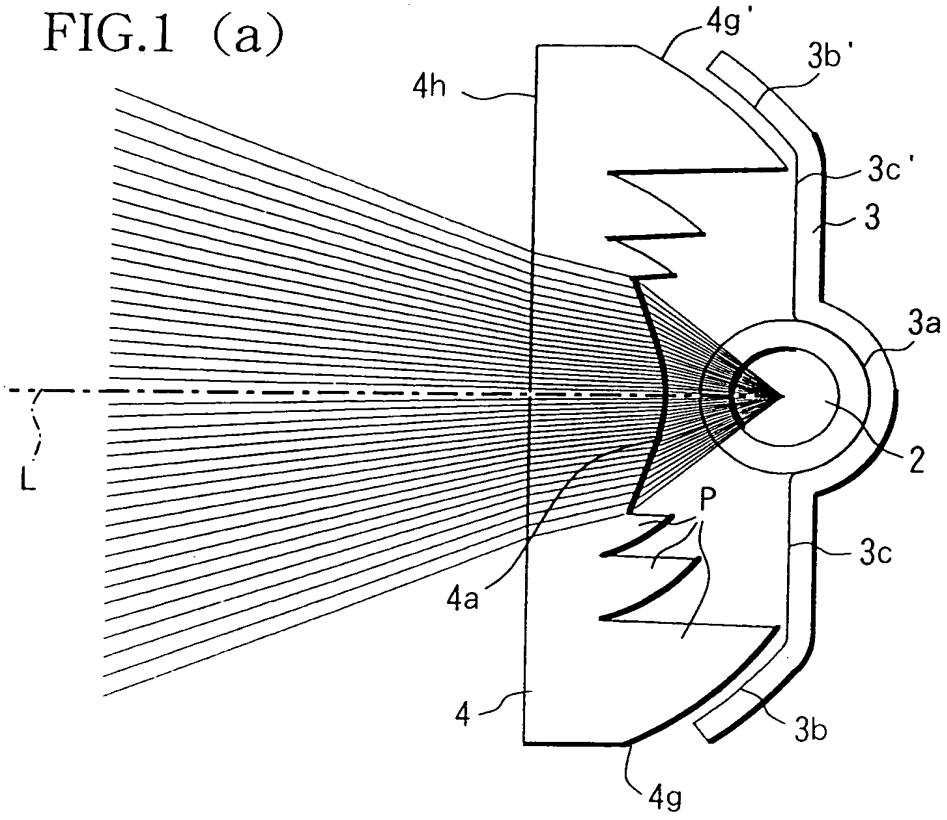


FIG.1 (b)

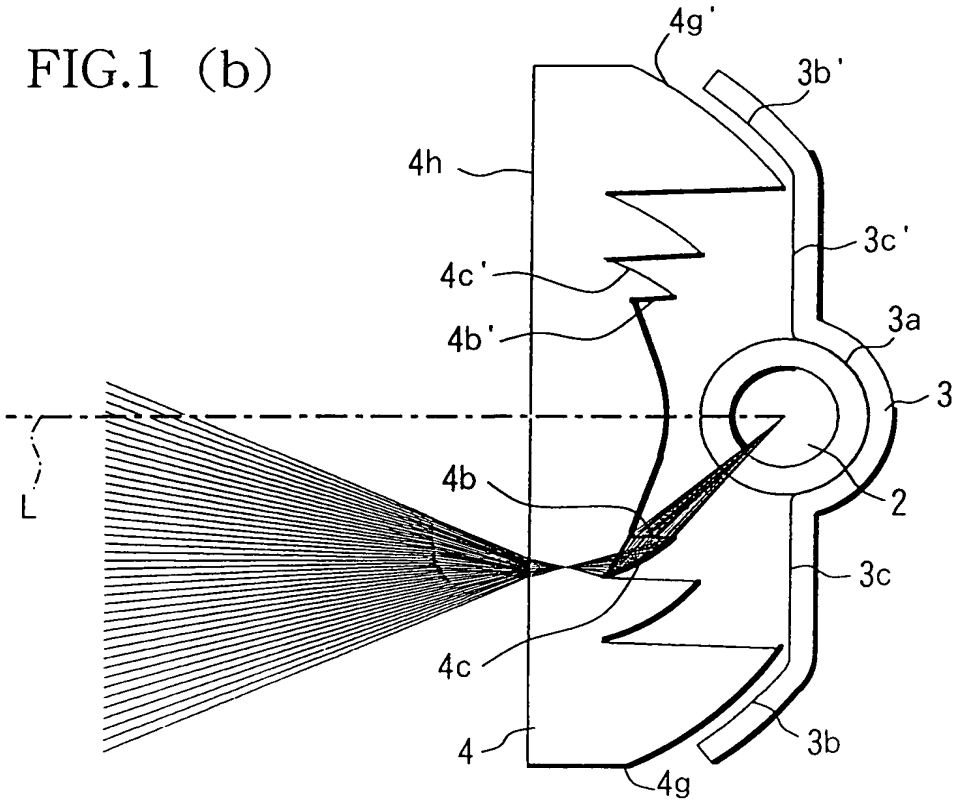


FIG.2 (a)

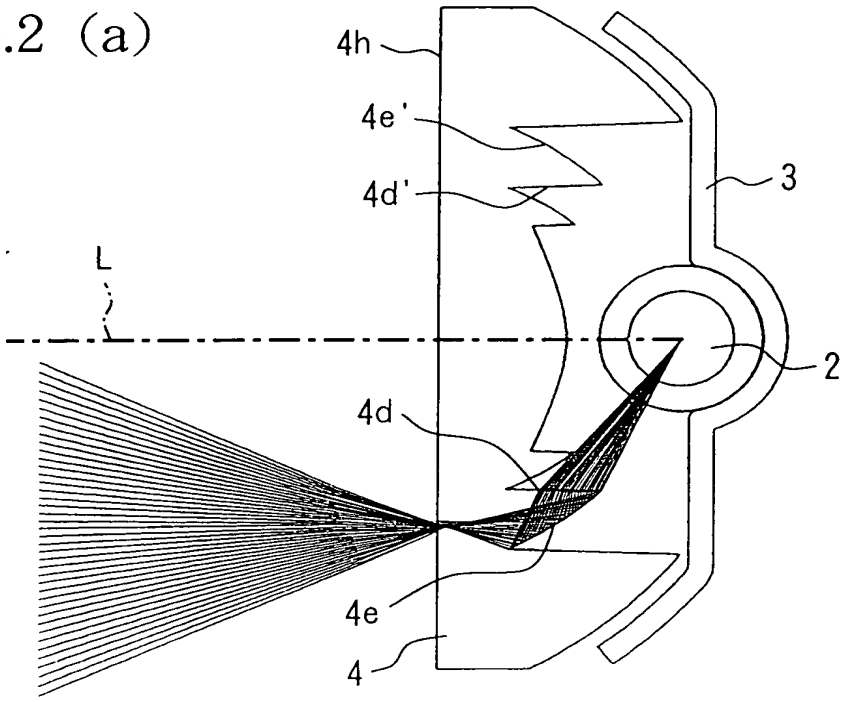


FIG.2 (b)

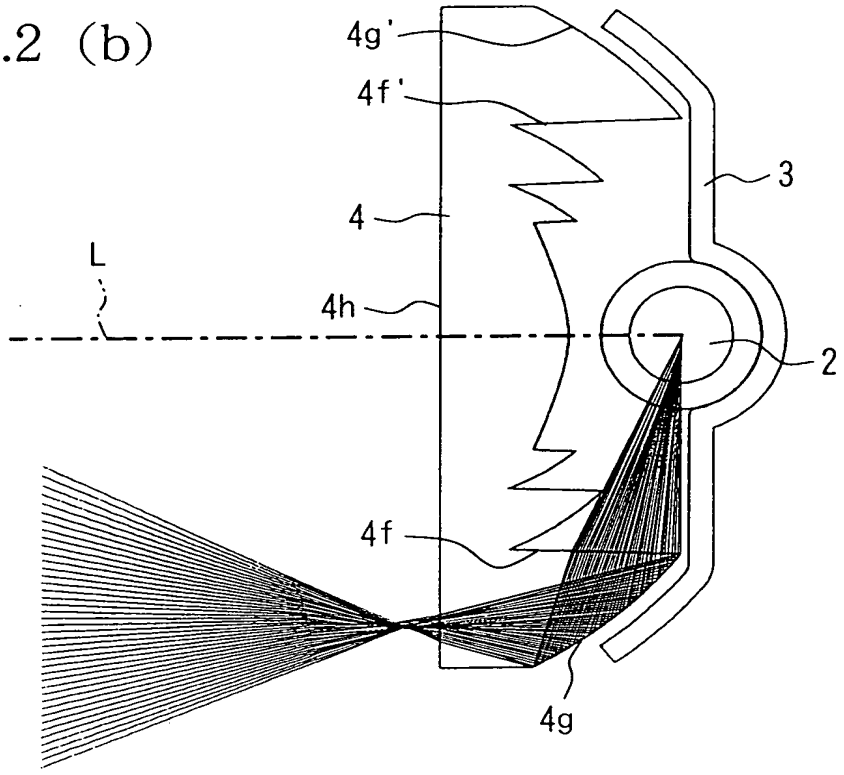


FIG.3

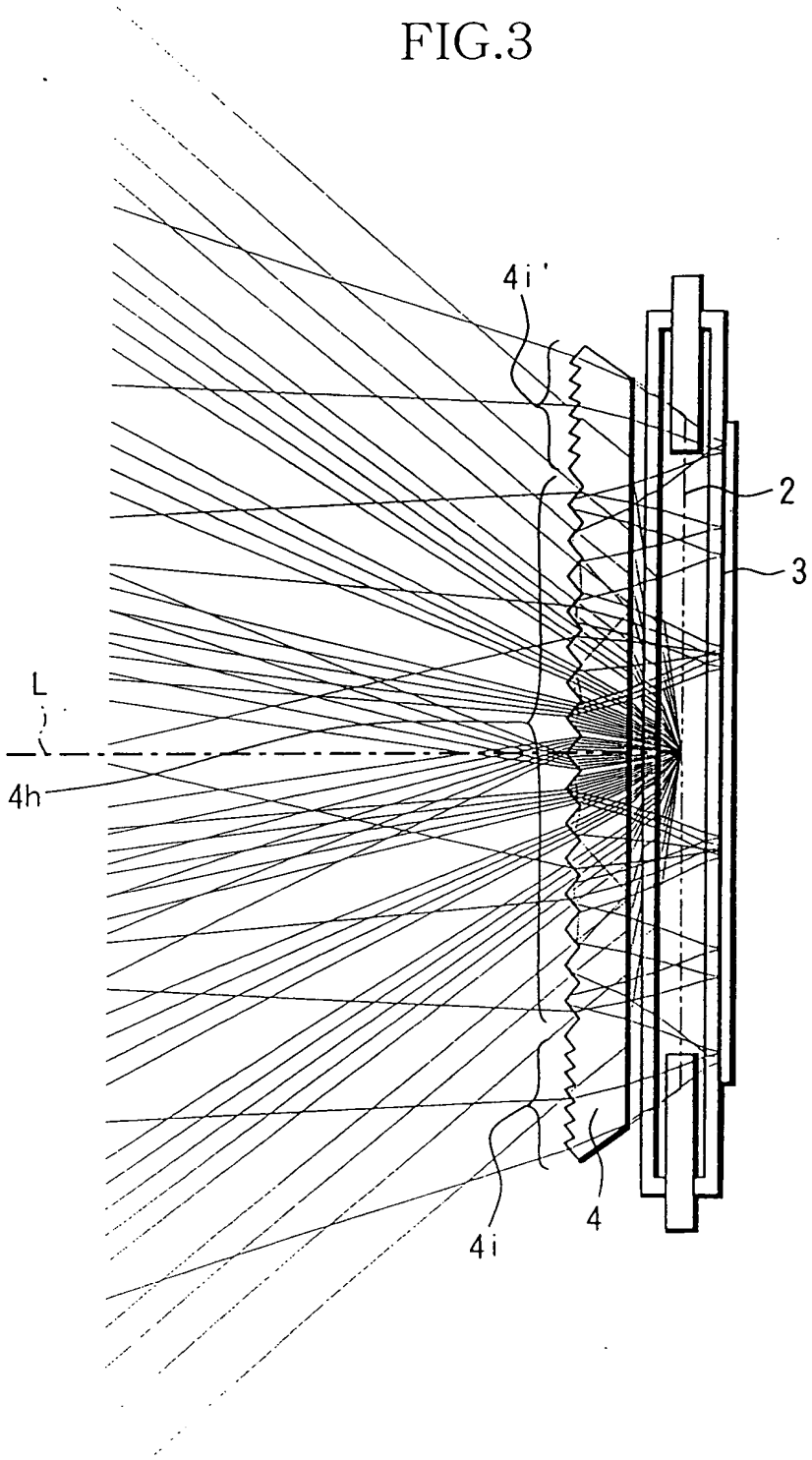


FIG.4

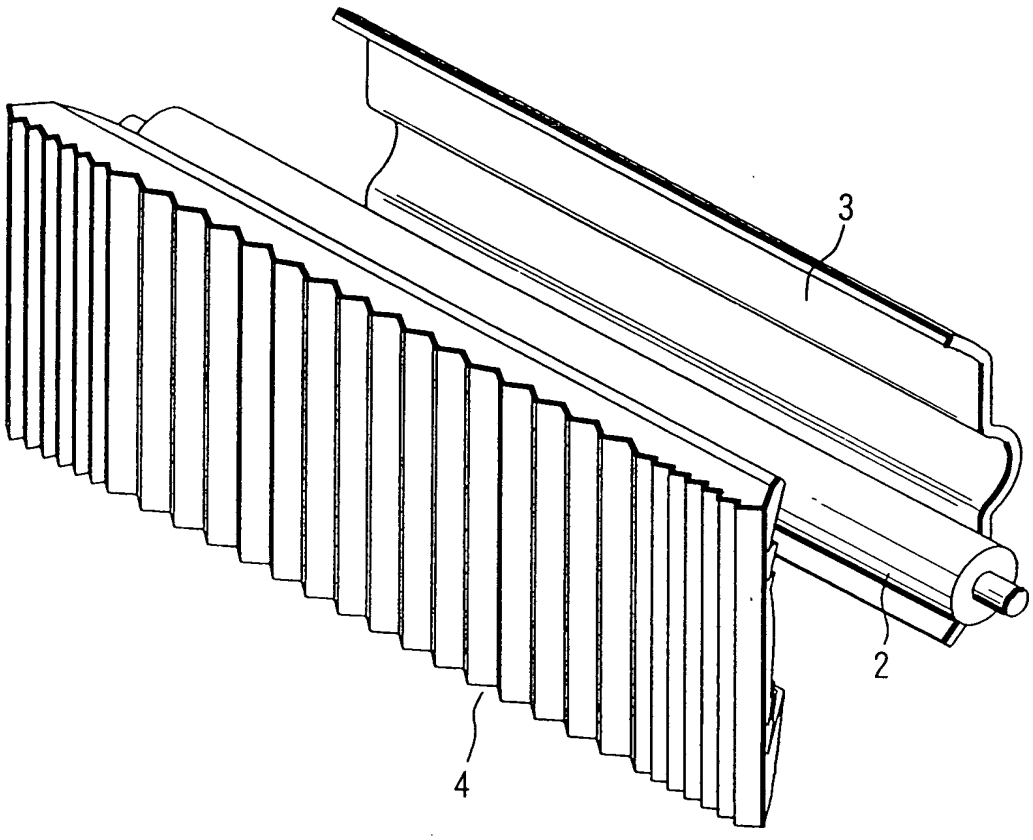


FIG.5 (a)

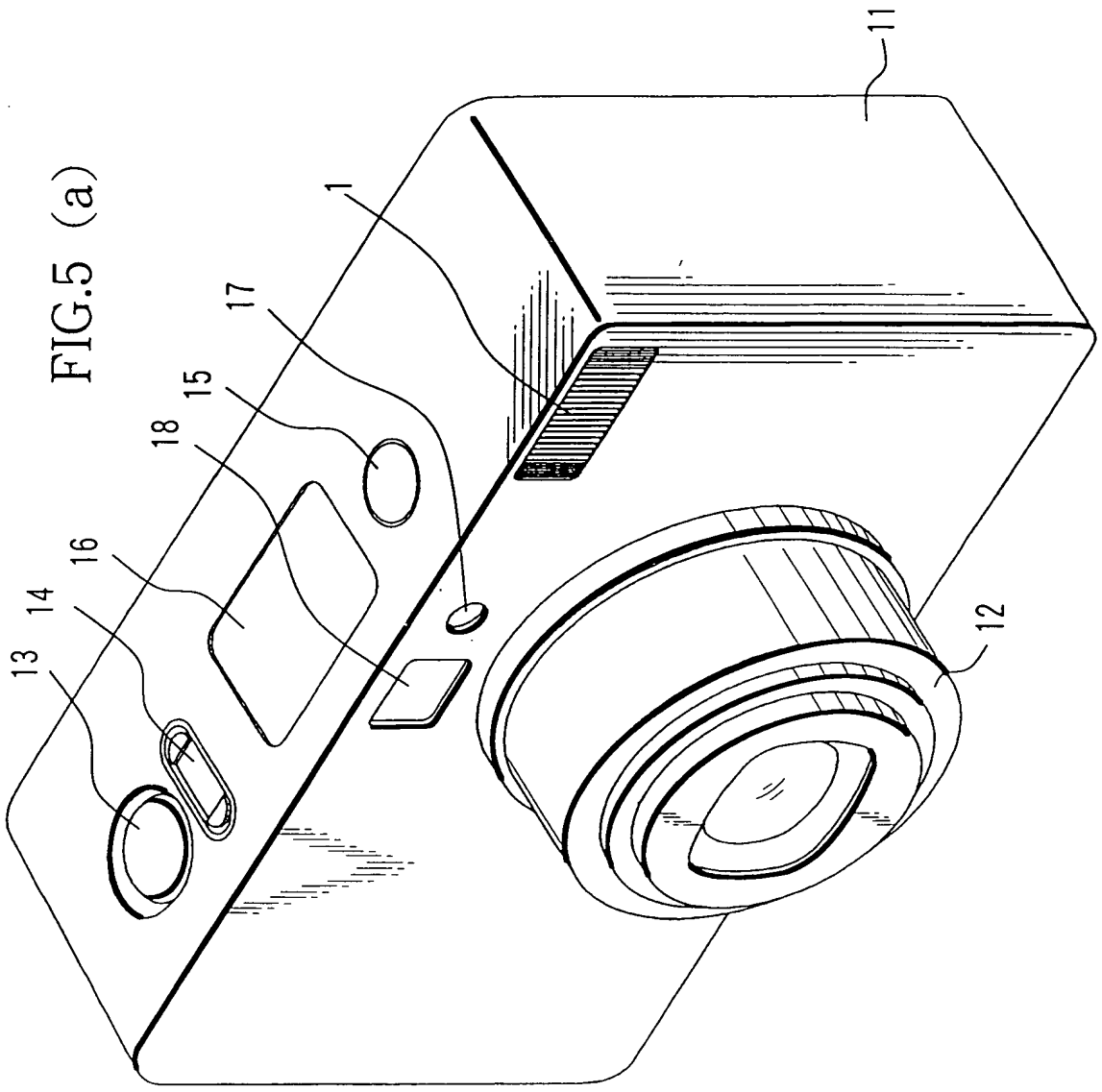


FIG.5 (b)

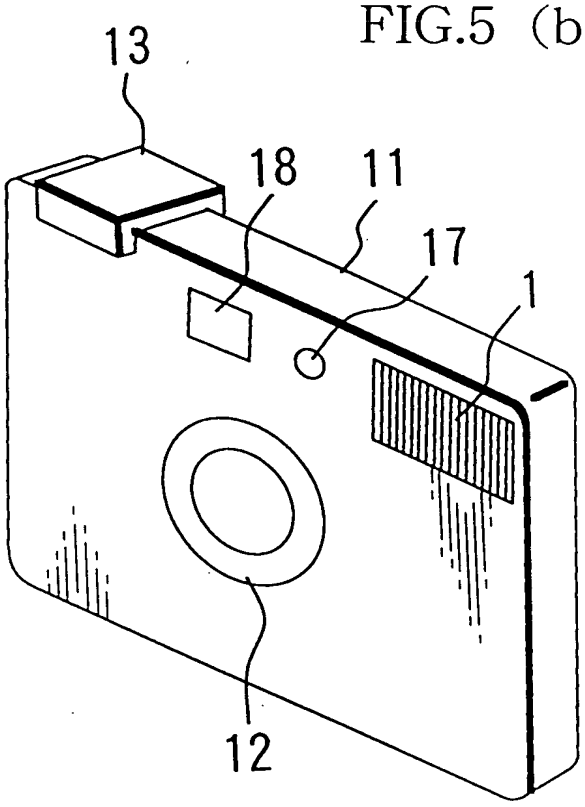
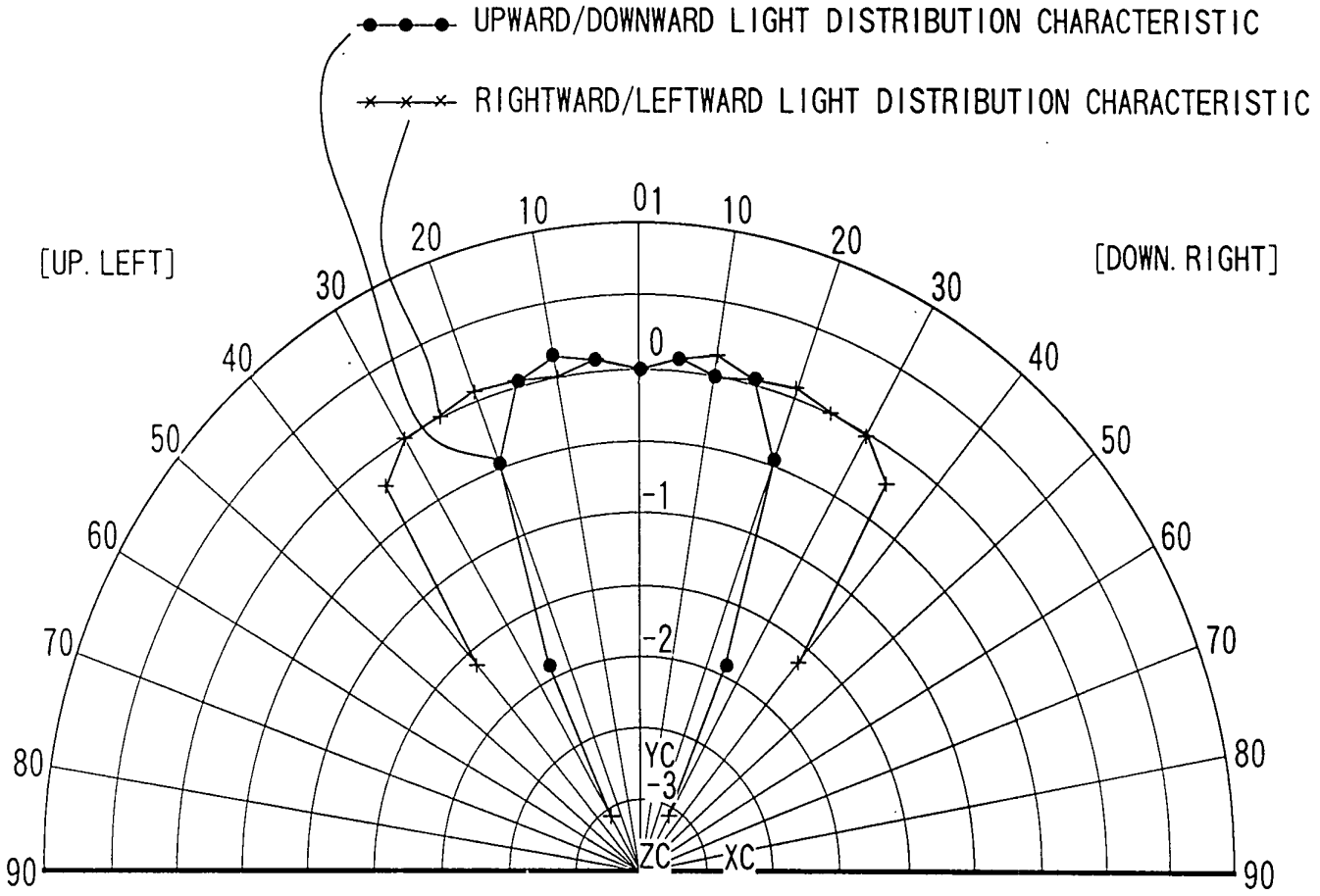


FIG.6


UPWARD/DOWNWARD LIGHT DISTRIBUTION CHARACTERISTIC
RIGHTWARD/LEFTWARD LIGHT DISTRIBUTION CHARACTERISTIC
[UP. LEFT]
[DOWN. RIGHT]
01
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-2
YC
-3
ZC
XC

FIG7 (a)

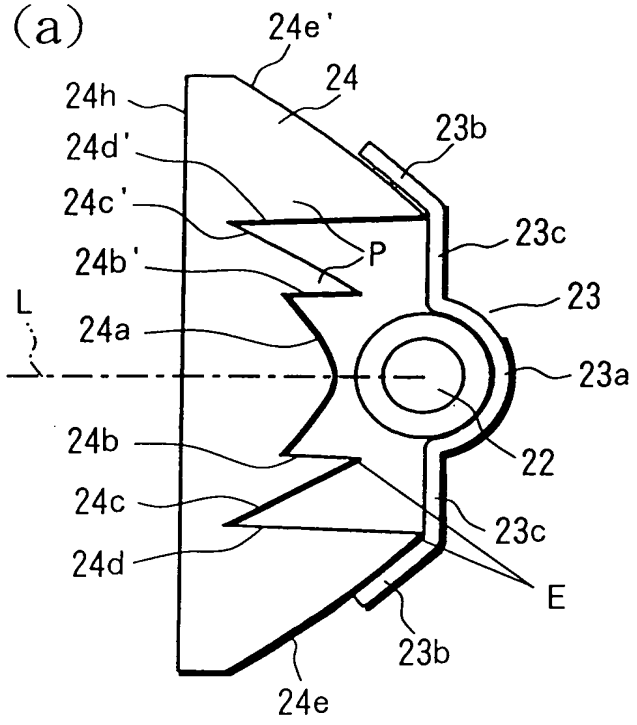

24e'
24
24h
23b
24d'
24c'
23c
P
24b'
23
L
24a
23a
24b
22
24c
23c
24d
E
23b
24e

FIG.7 (b)

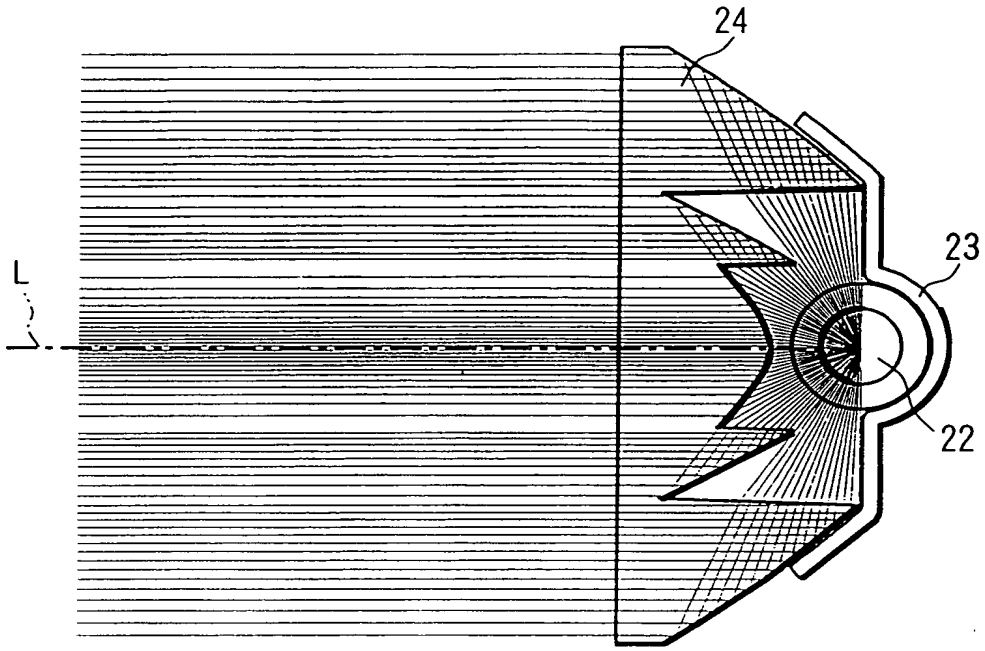


FIG.8

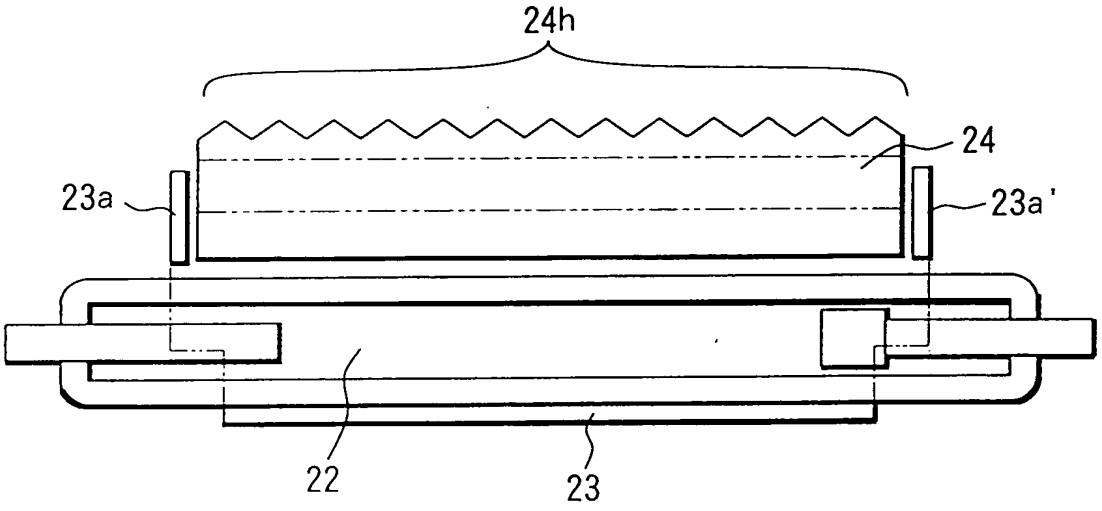


FIG.9

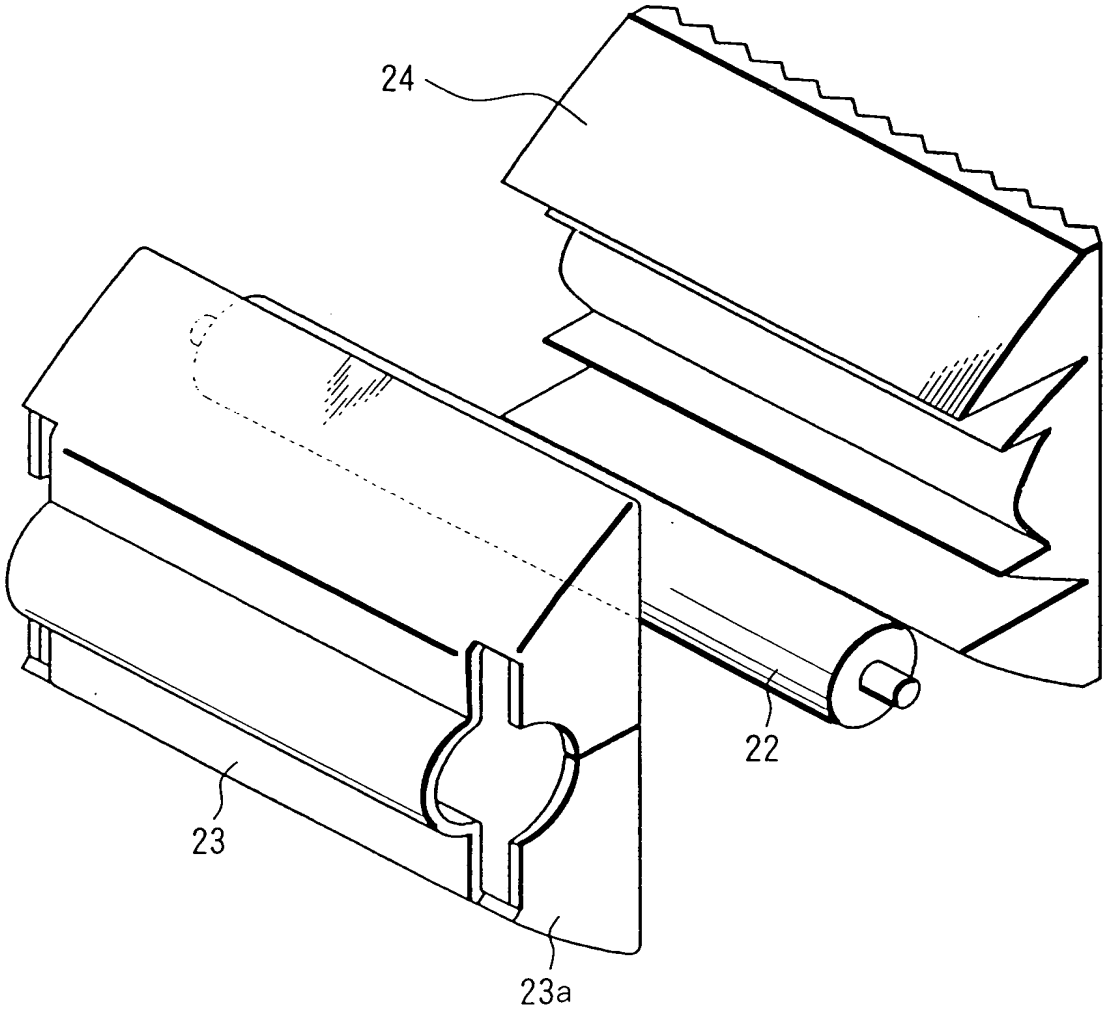


FIG.10 (a)

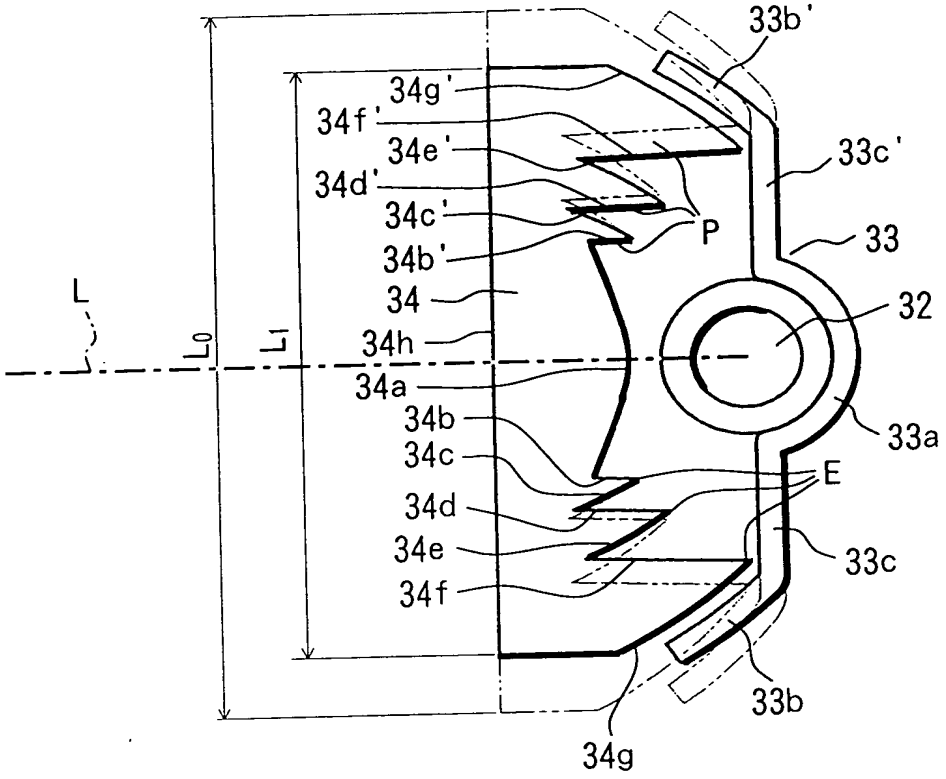

33b'
34g'
34f'
34e'
34d'
34c'
34b'
34
34h
34a
34b
34c
34d
34e
34f
34g
33c'
33
32
33a
33c
33b
P
E
L
L0
L1

FIG.10 (b)

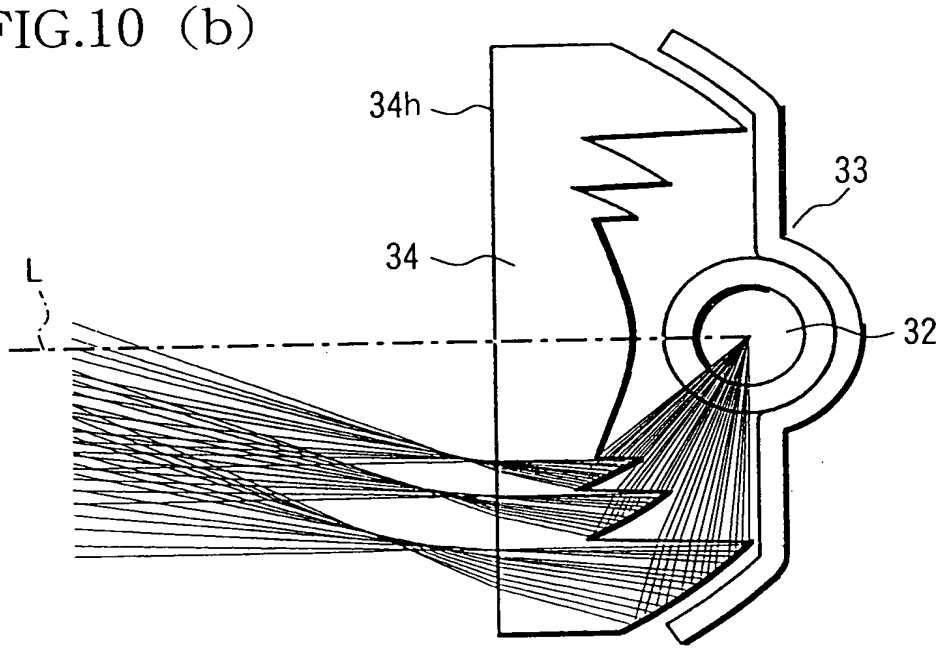


FIG.11

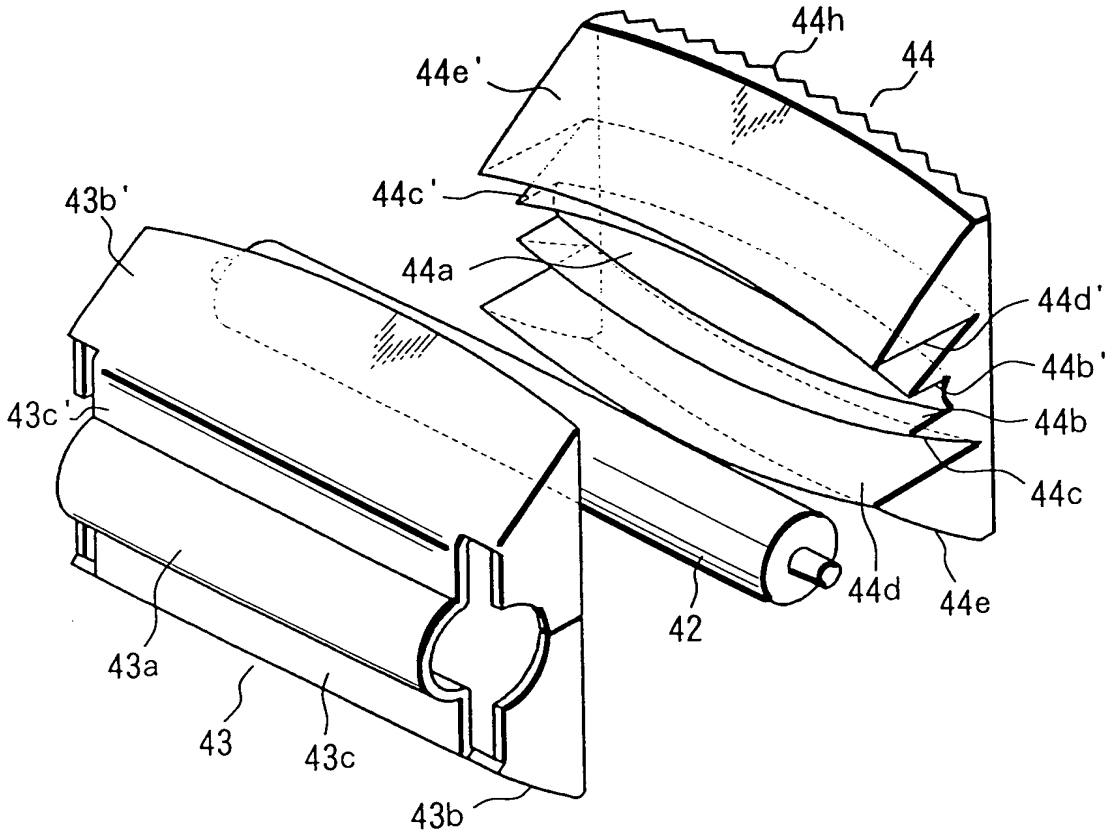

44h
44
44e'
44c'
43b'
44a
44d'
44b'
43c'
44b
44c
44d
44e
42
43a
43
43c
43b

FIG.12

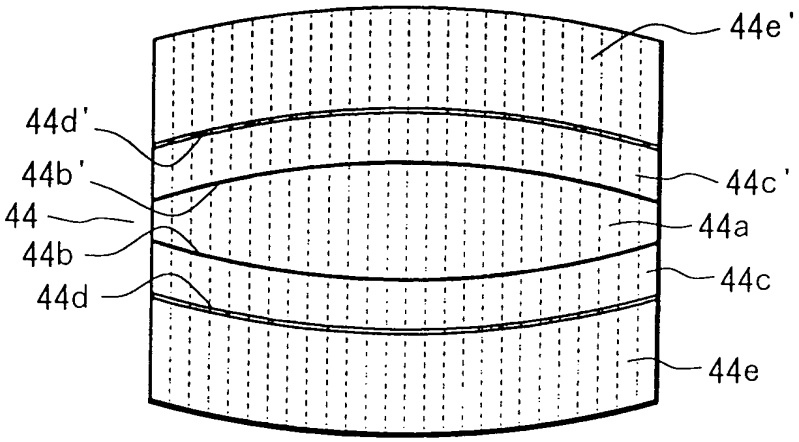


FIG.13 (a)

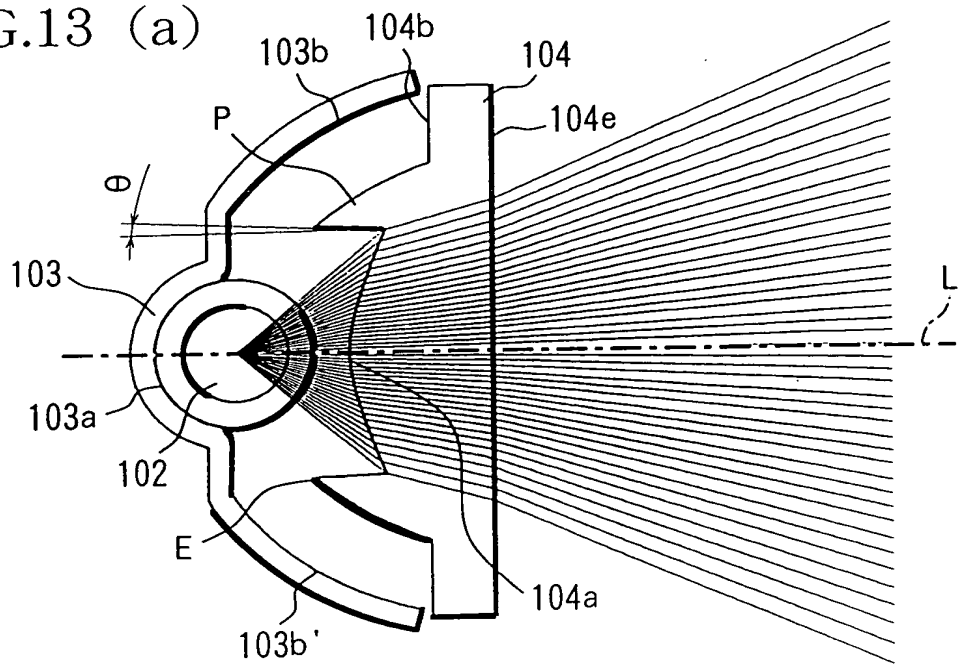


FIG.13 (b)

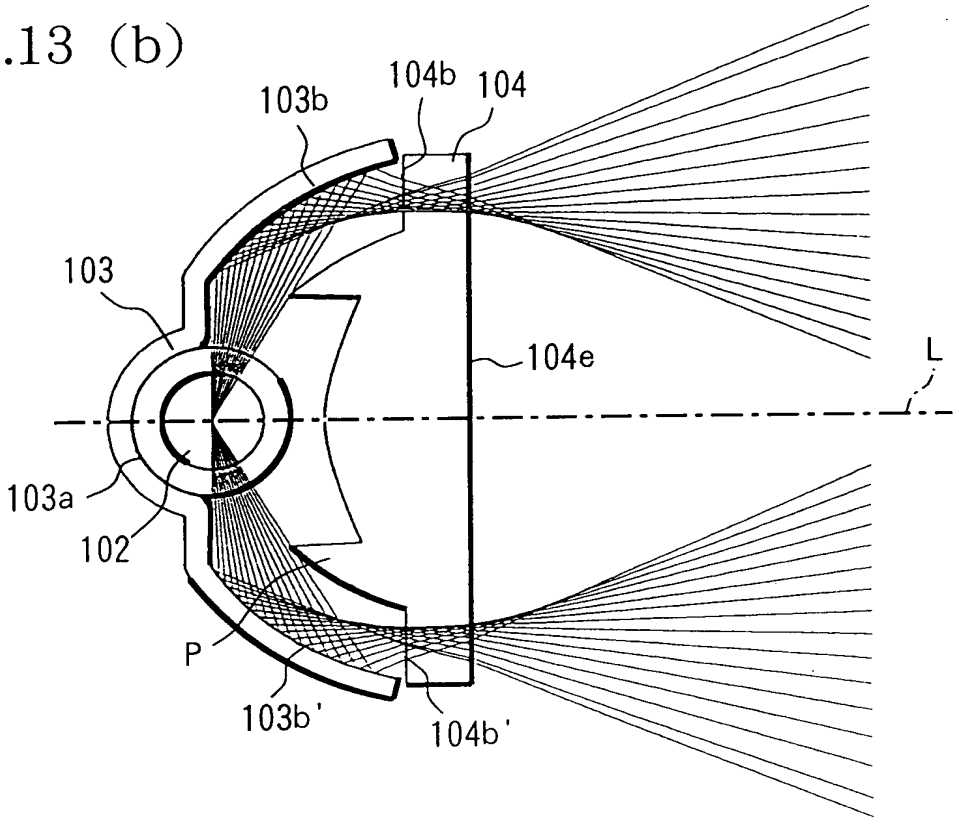


FIG.14 (a)

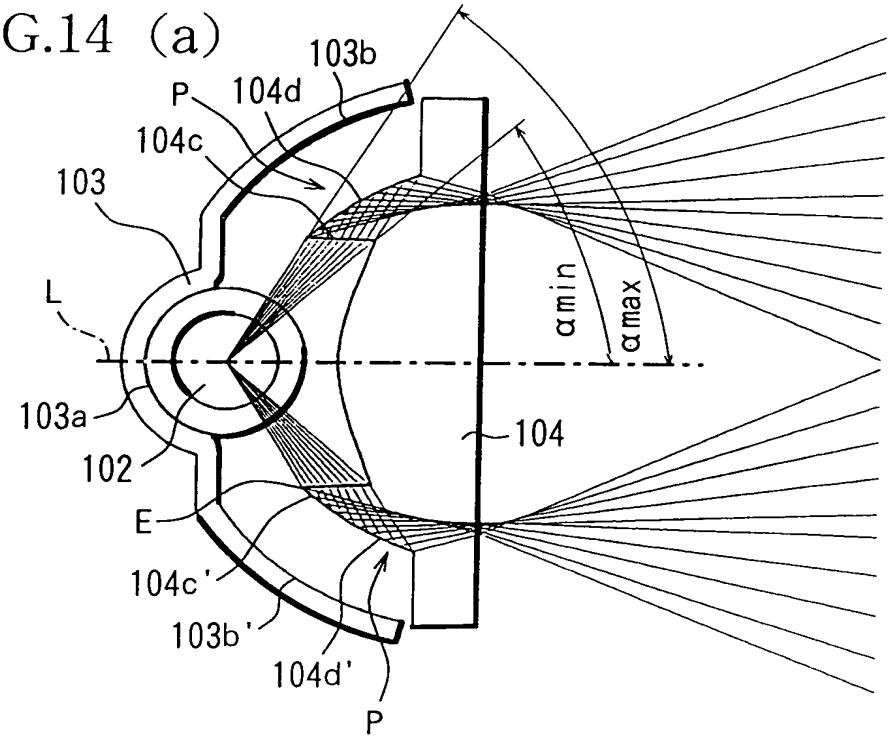


FIG.14 (b)

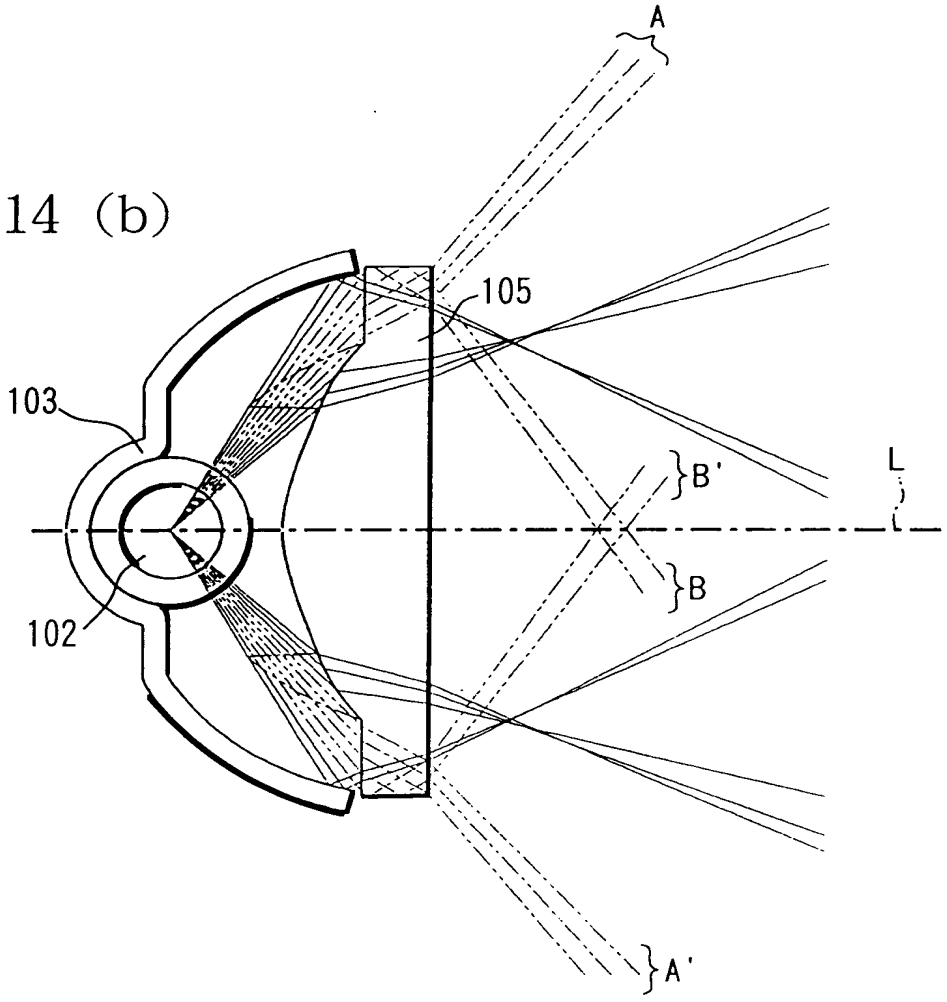


FIG.15

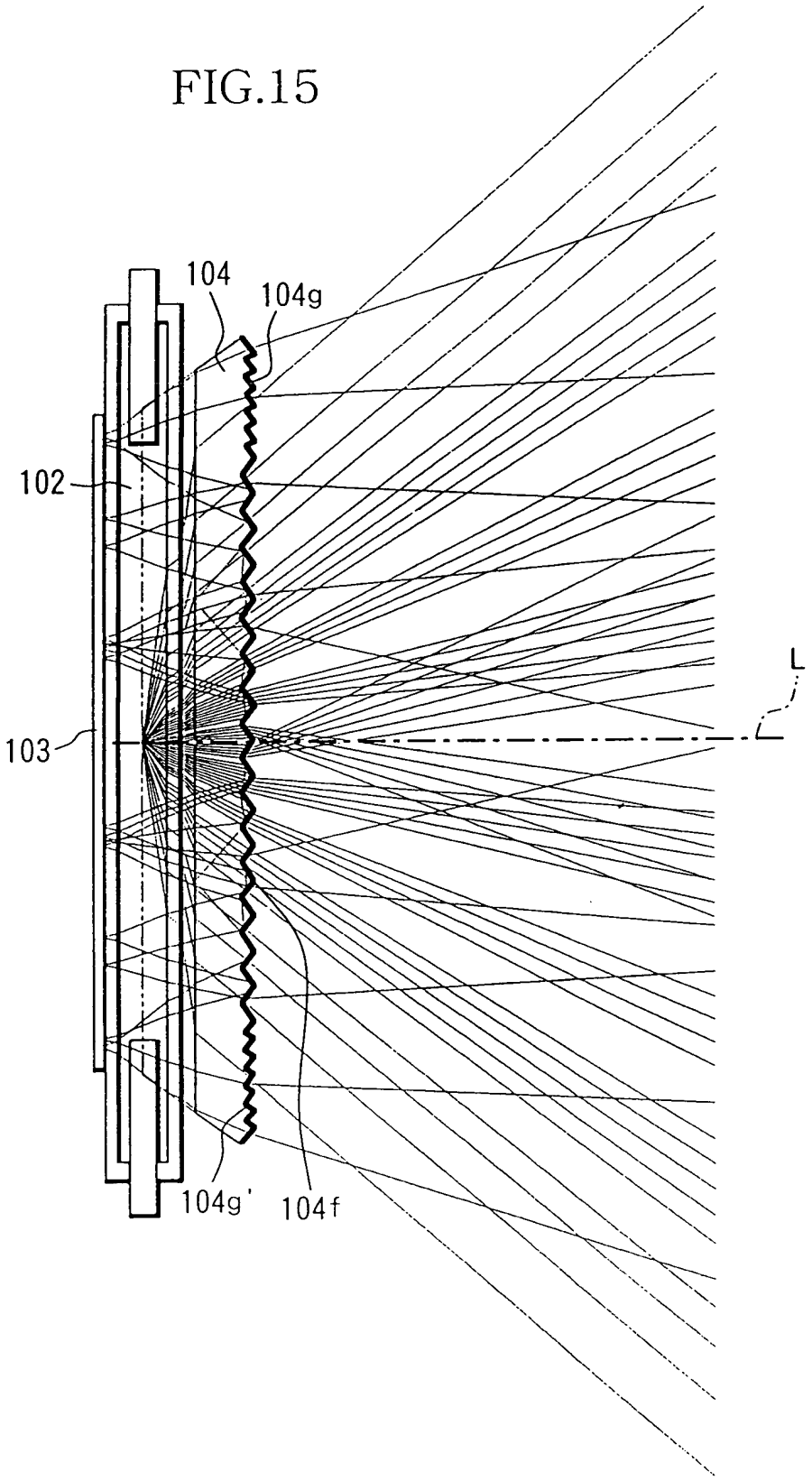


FIG.16

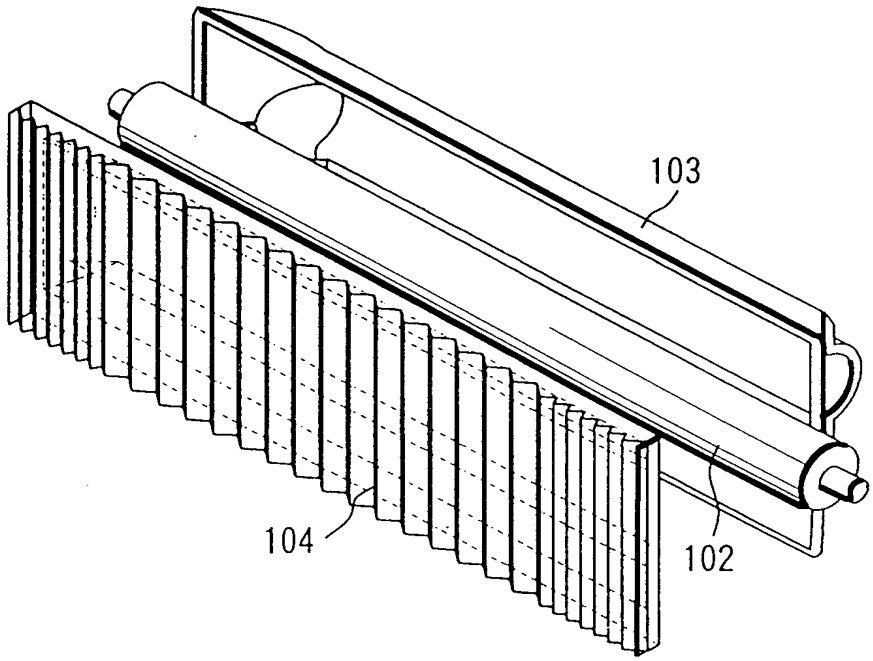


FIG.17

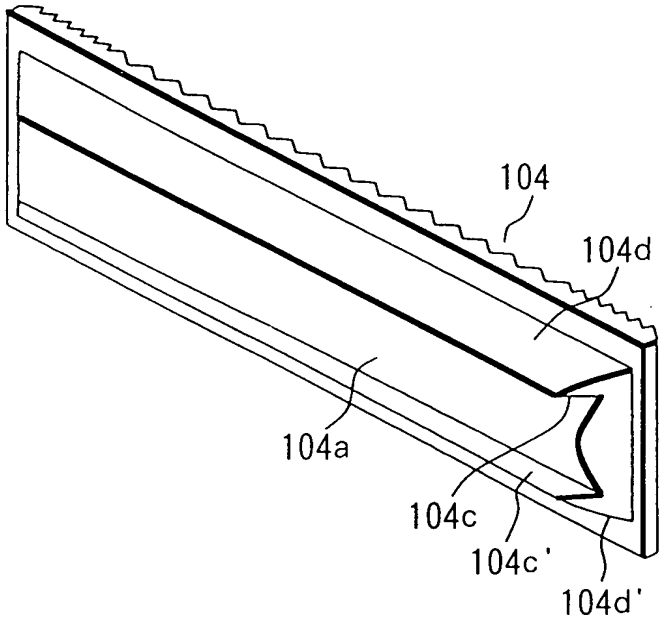


FIG.18 (a)

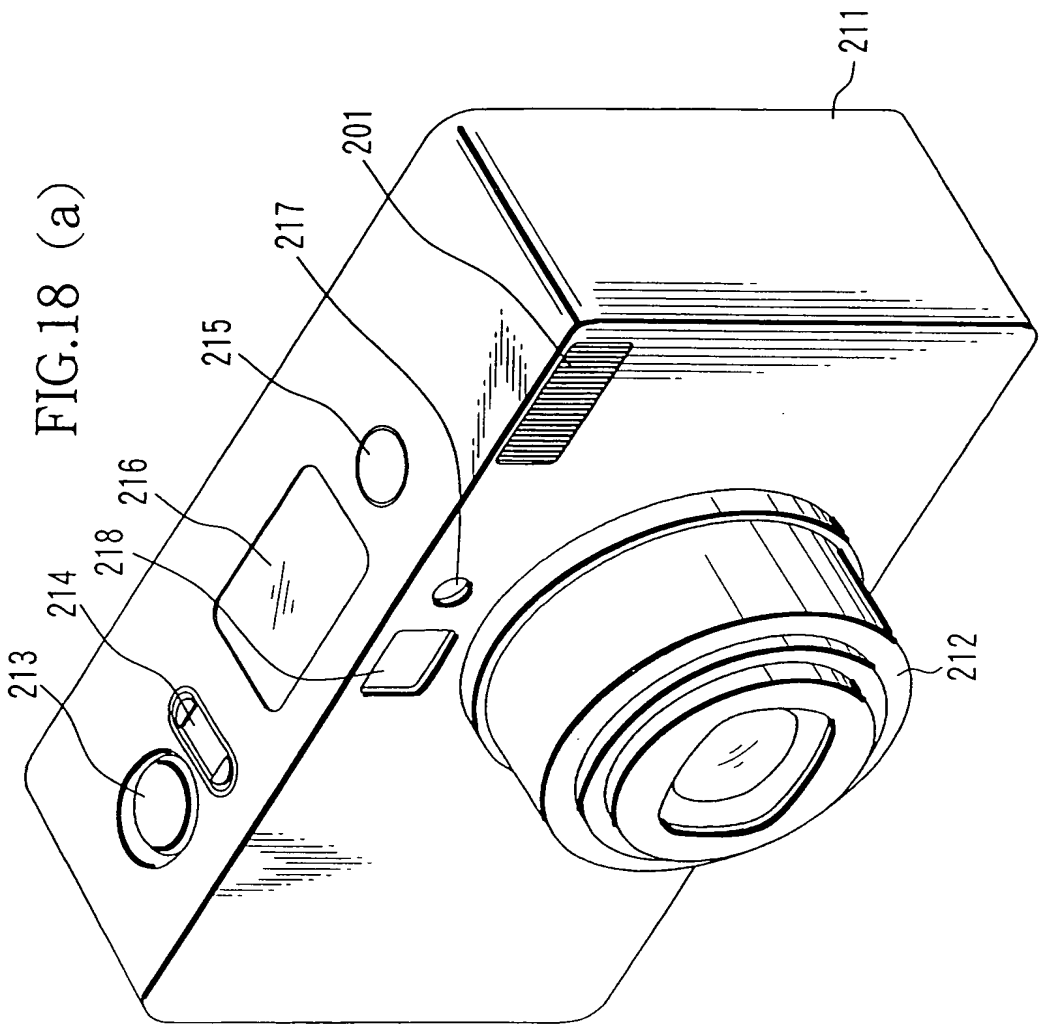


FIG.18 (b)

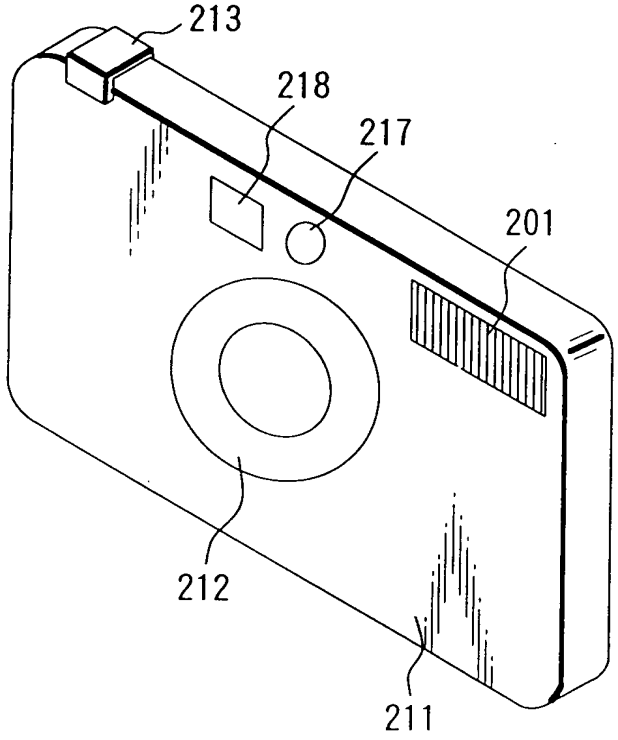


FIG.19 (a)

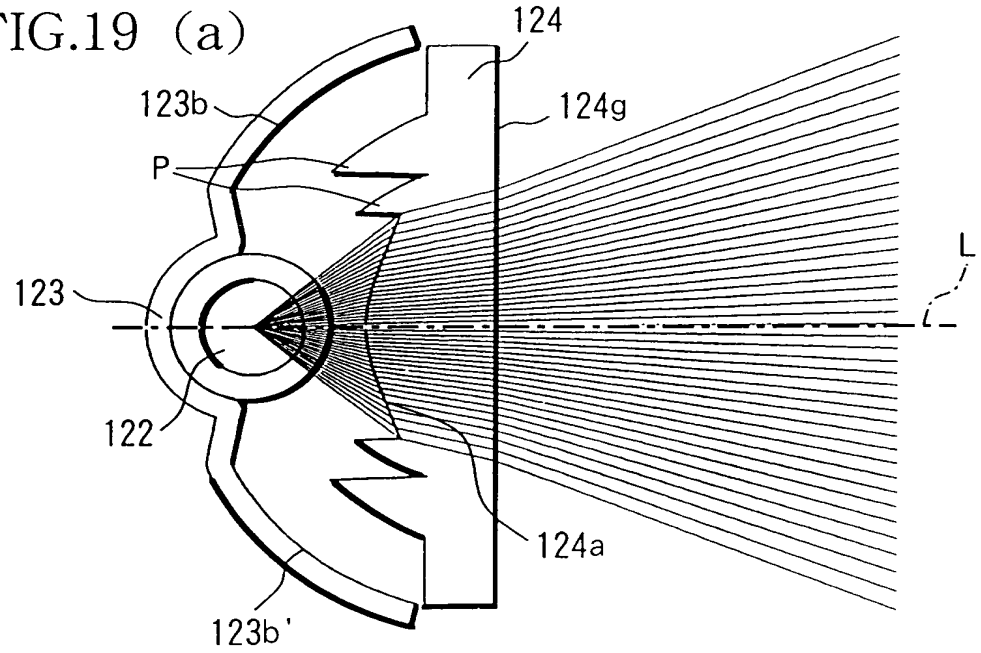


FIG.19 (b)

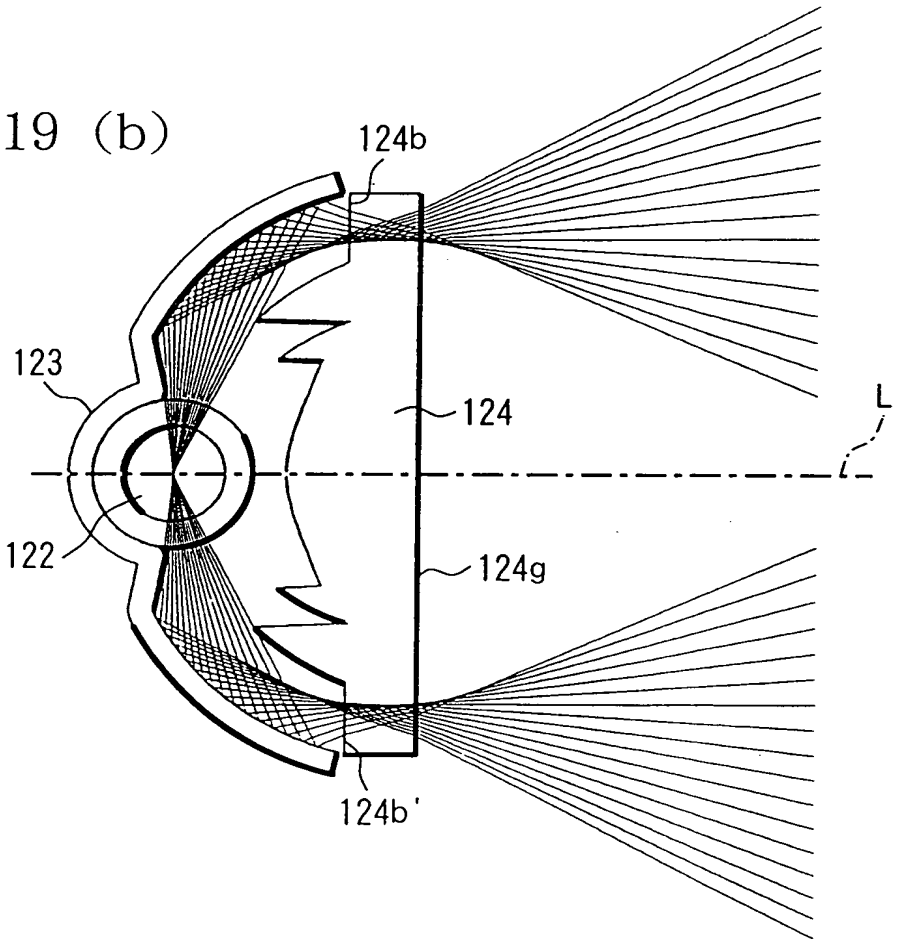


FIG.20 (a)

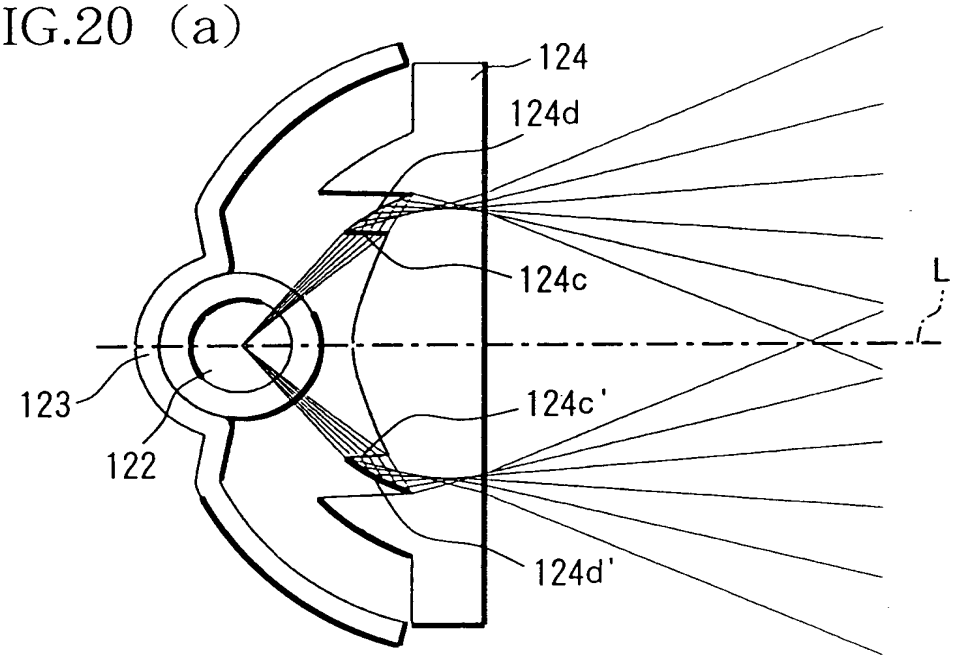


FIG.20 (b)

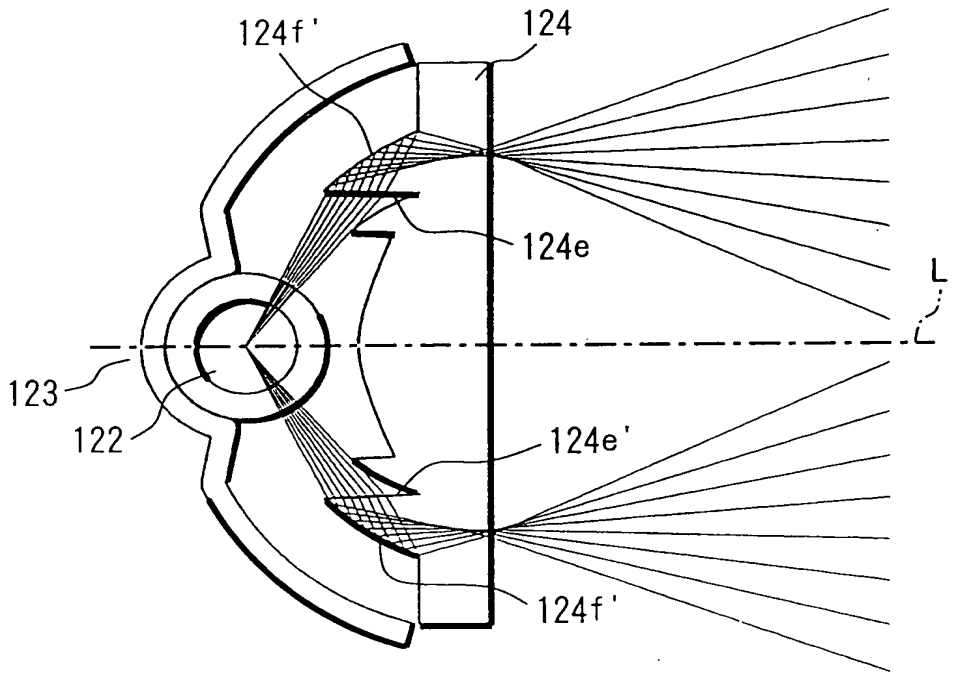


FIG.21 (a)

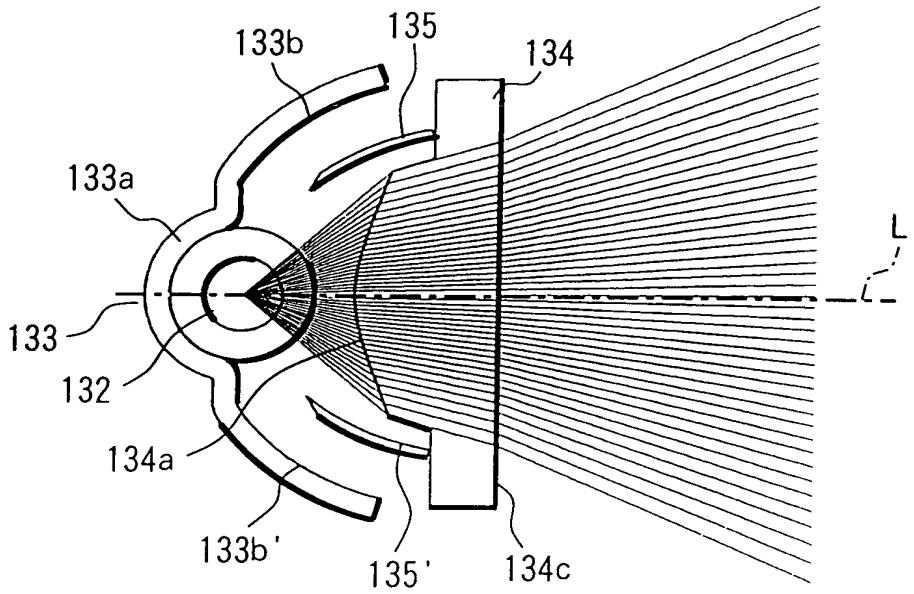


FIG.21 (b)

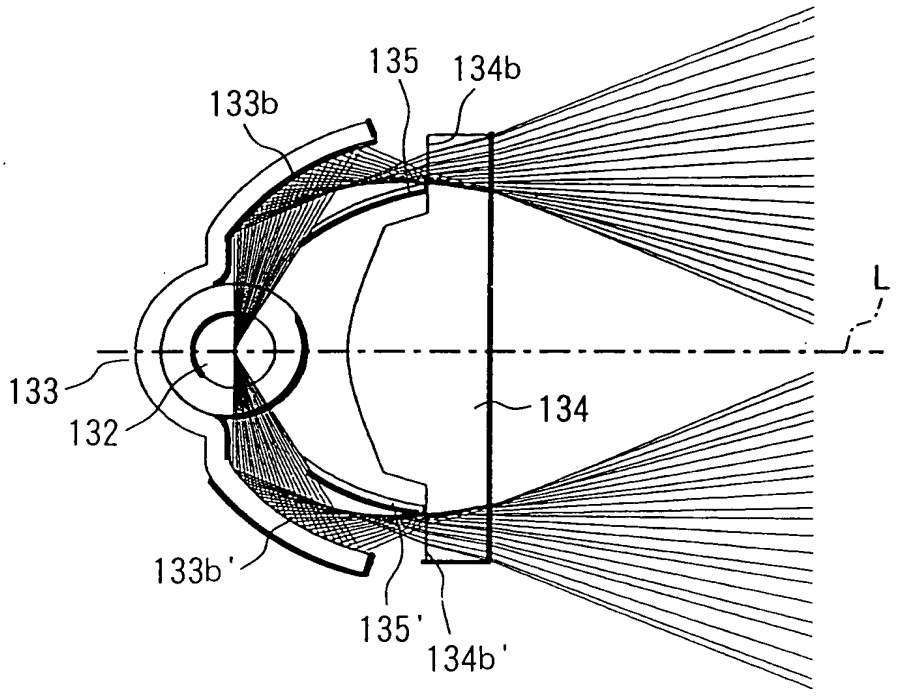


FIG.22 (a)

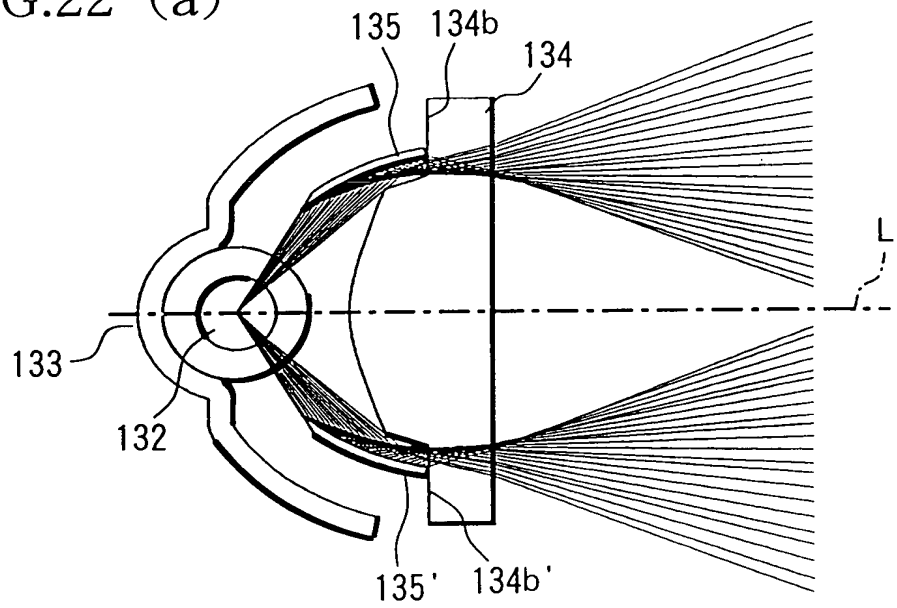


FIG.22 (b)

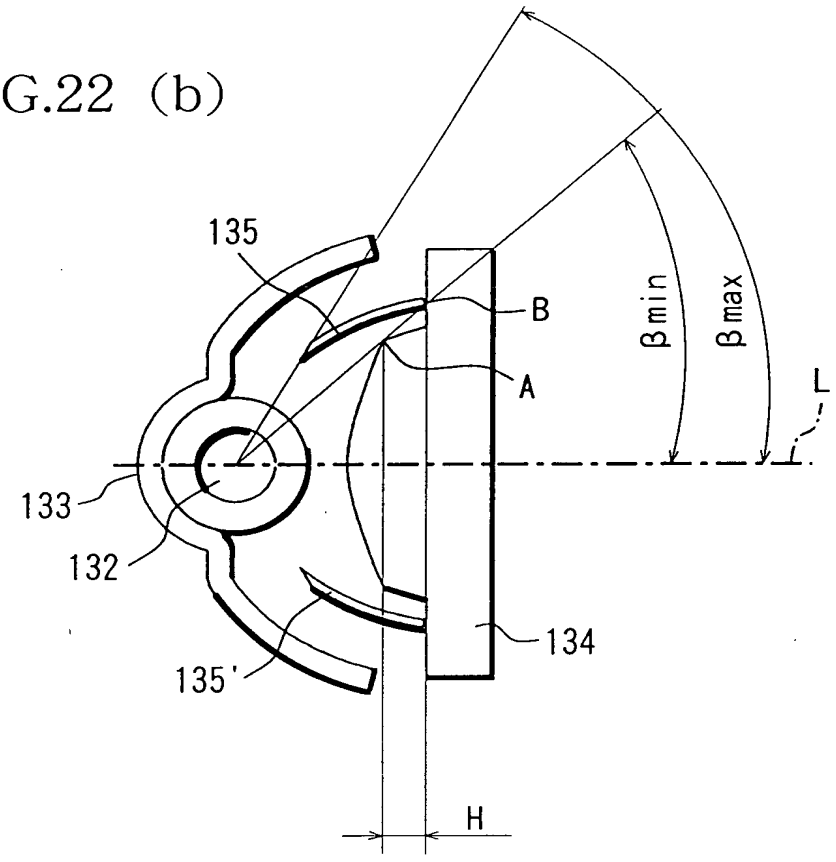


FIG.23

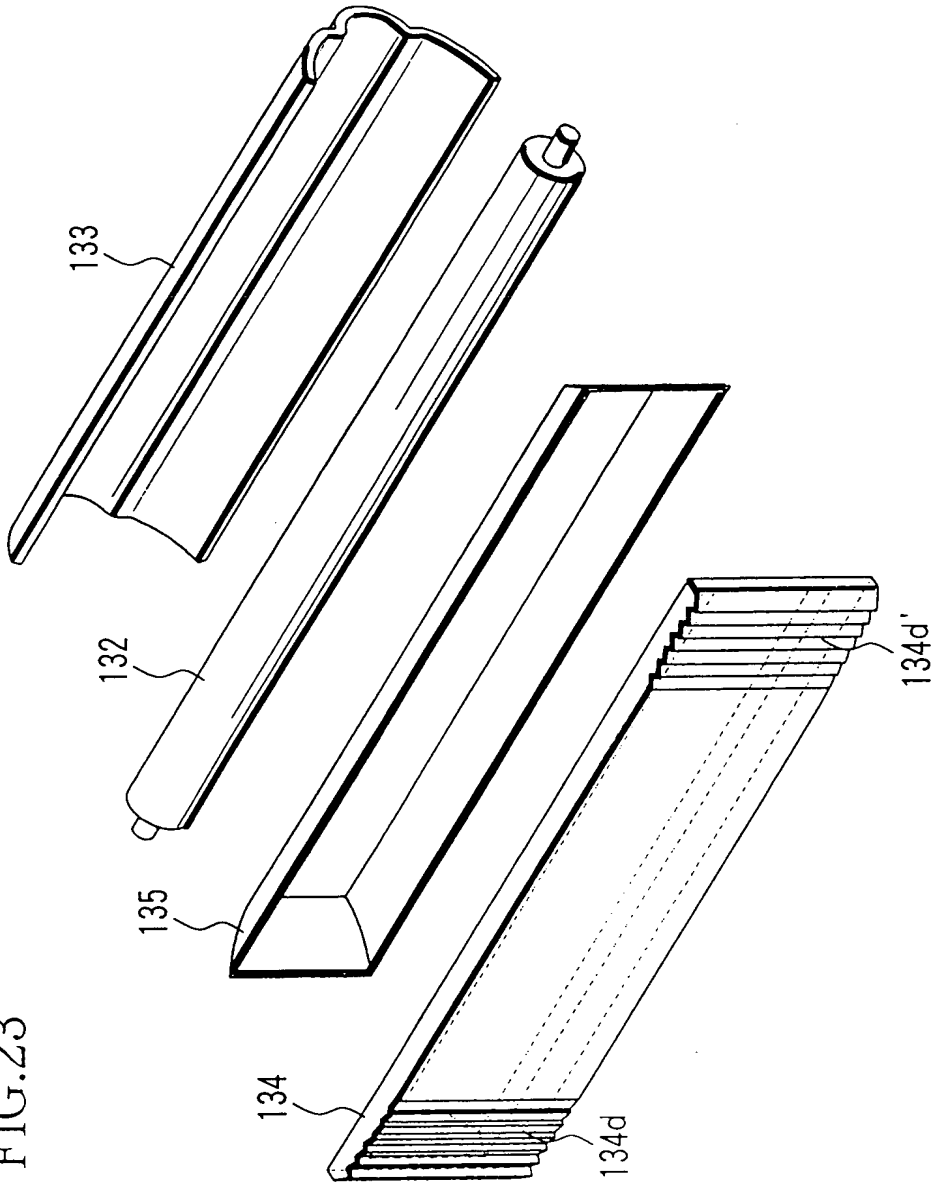


FIG.24 (a)

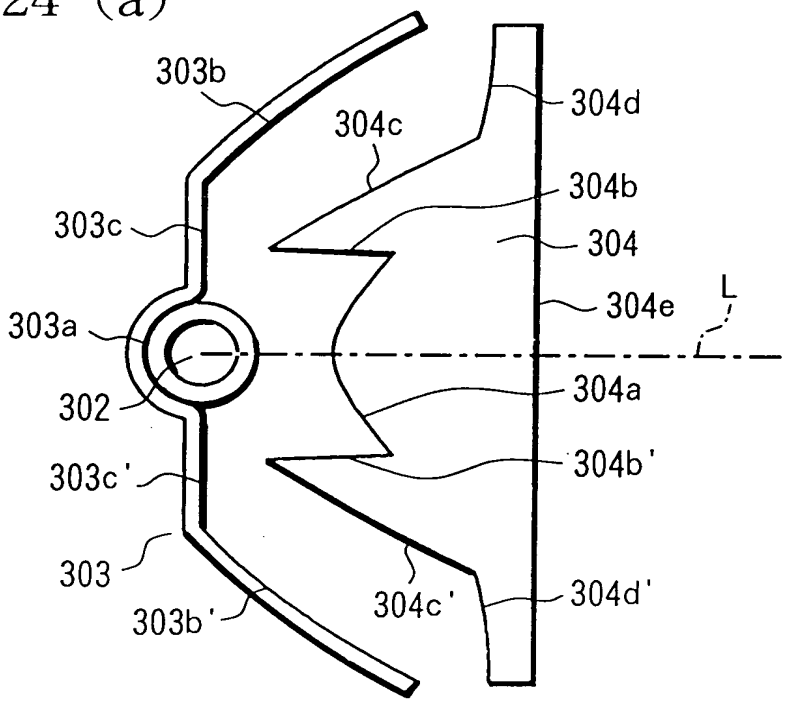

303b
304c
304d
304b
303c
304
303a
304e
L
302
304a
303c'
304b'
303
304c'
304d'
303b'

FIG.24 (b)

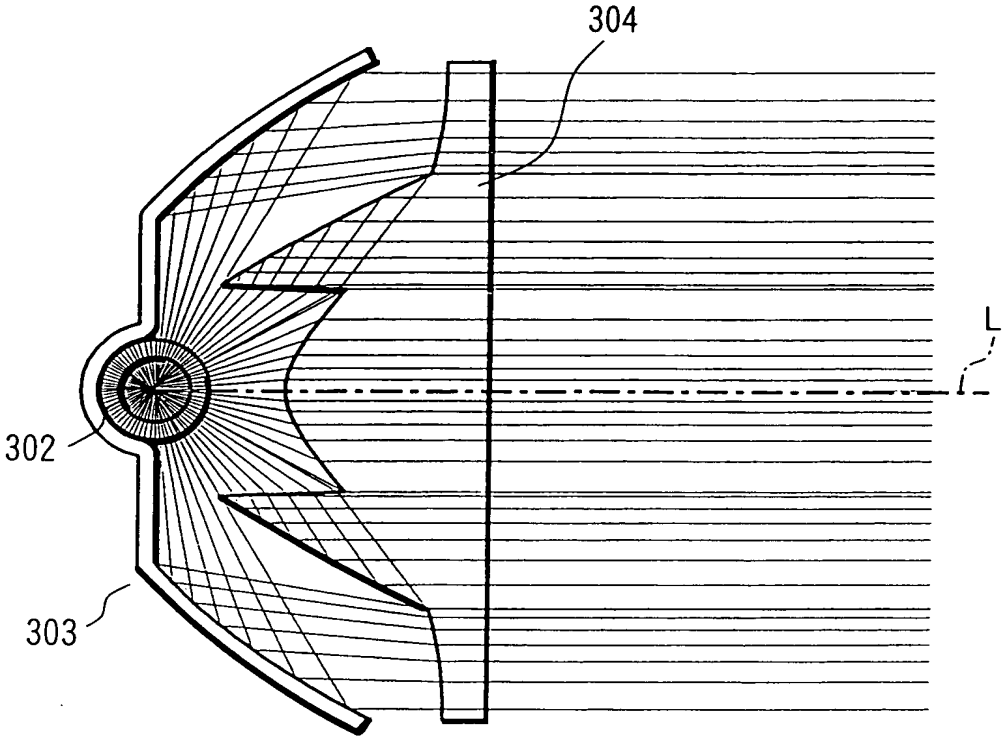
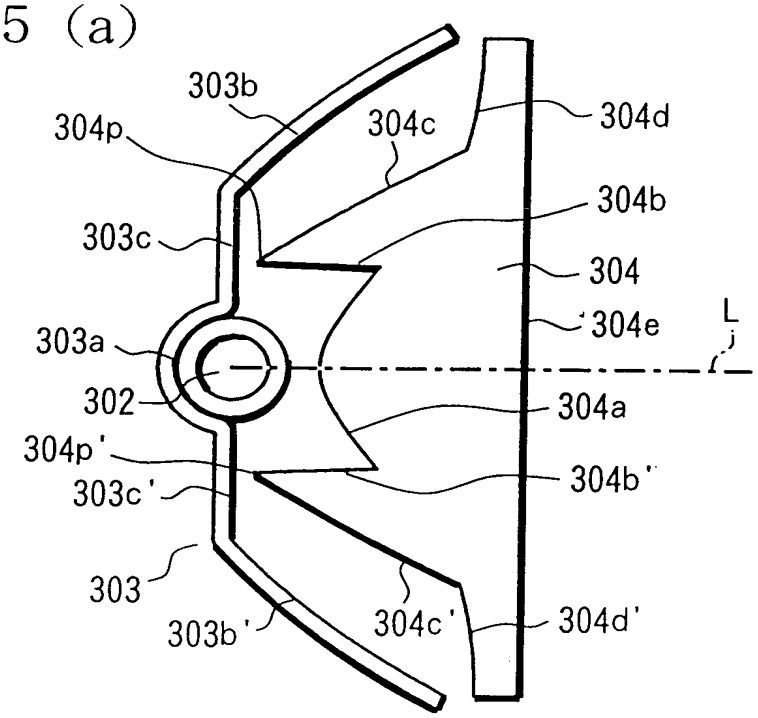


FIG.25 (a)


303b
304p
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304d
304b
303c
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304e
L
303a
302
304a
304p'
304b'
303c'
303
303b'
304c'
304d'

FIG.25 (b)

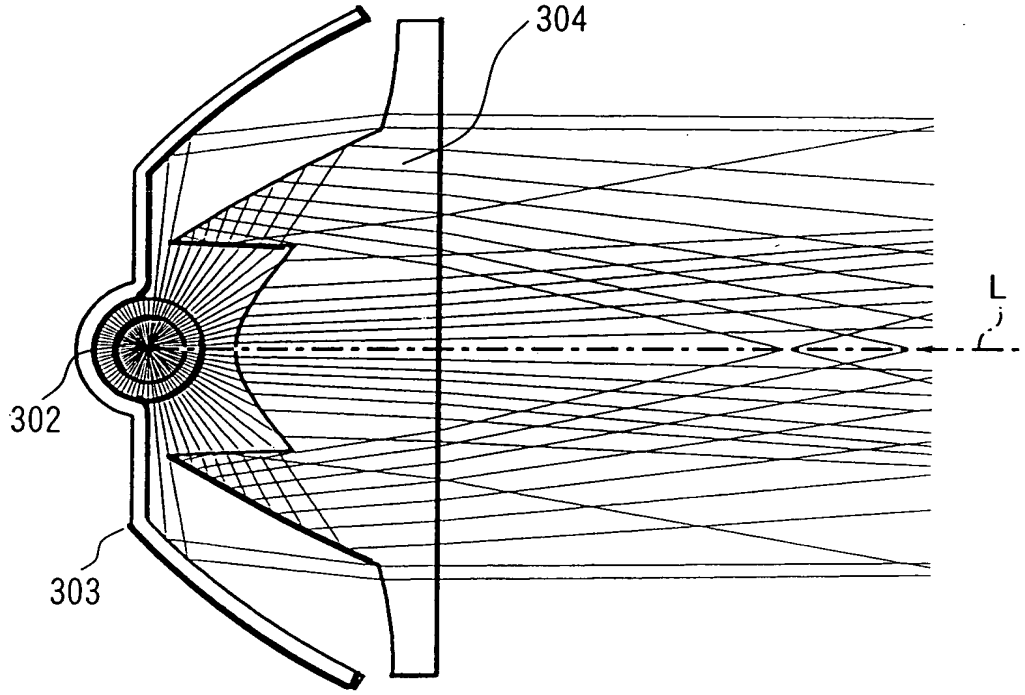


FIG.26 (a)

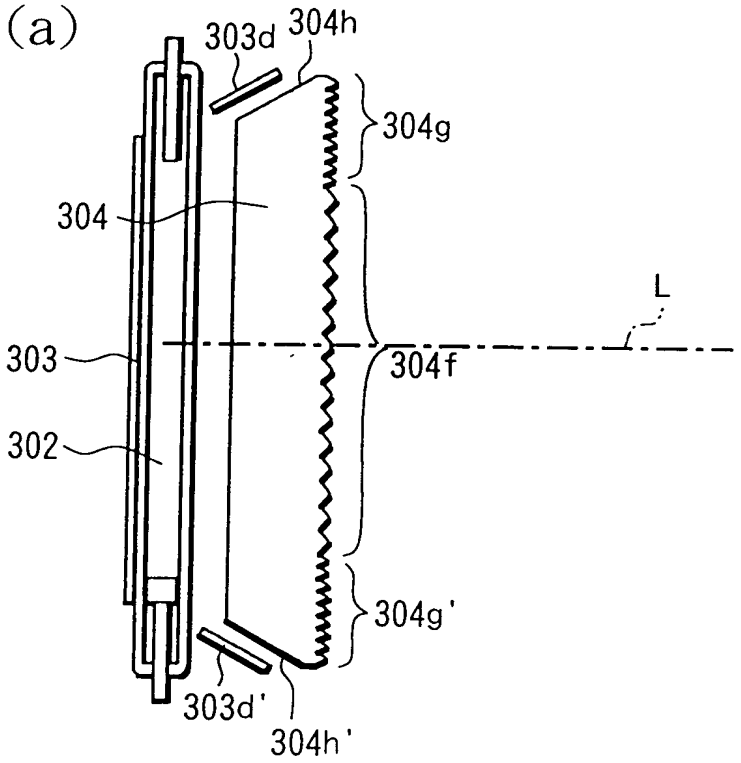


FIG.26 (b)

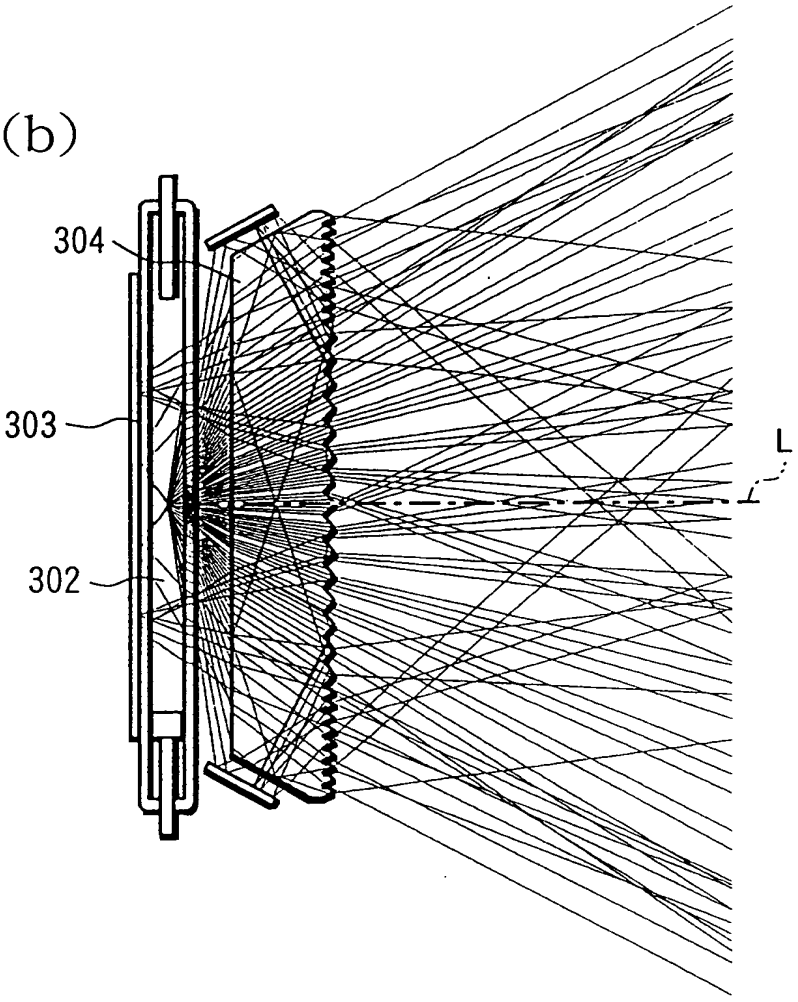


FIG.27

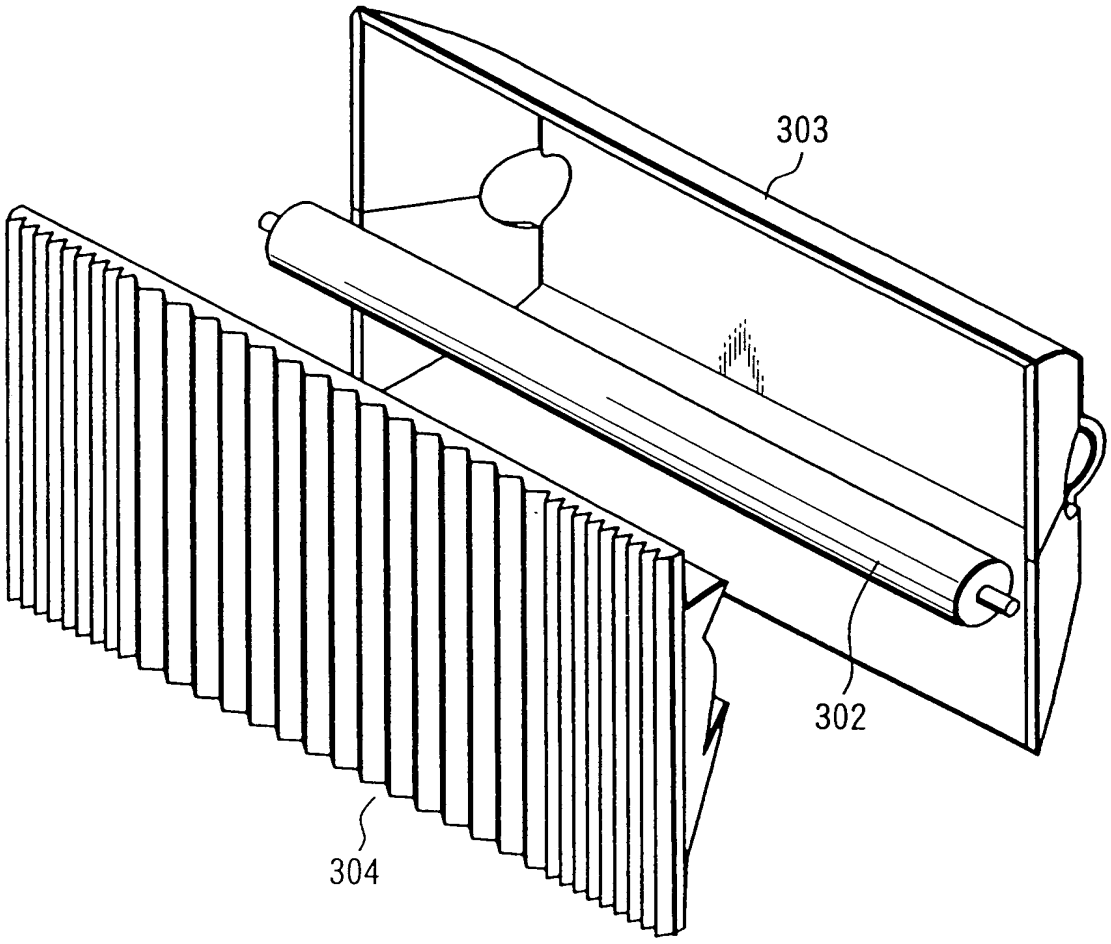


FIG.28 (a)

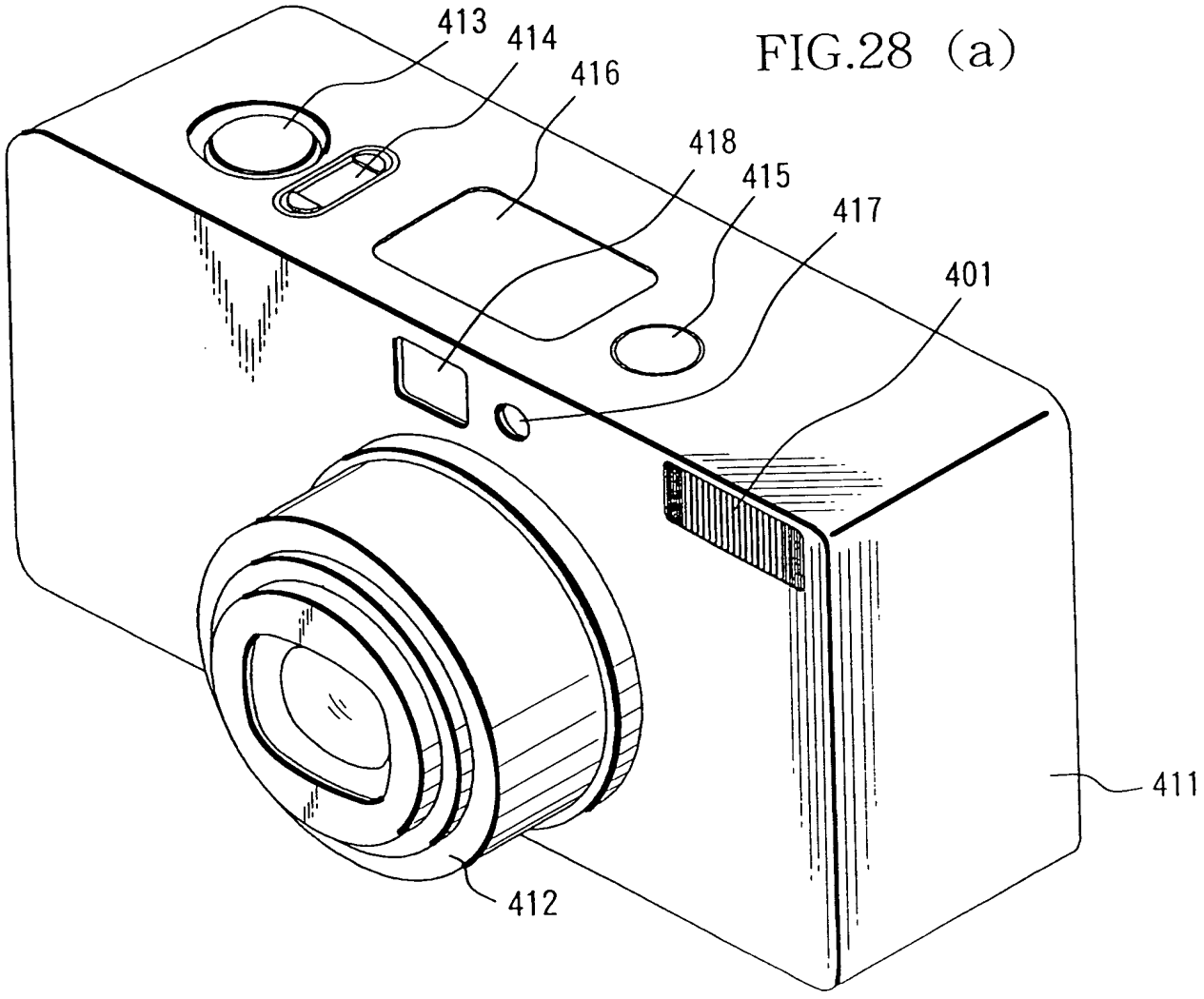


FIG.28 (b)

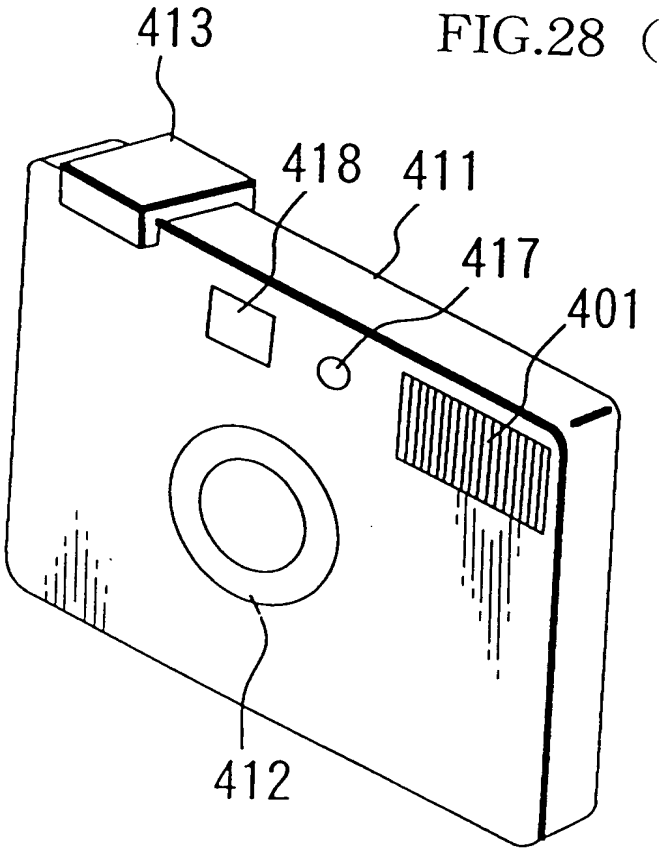
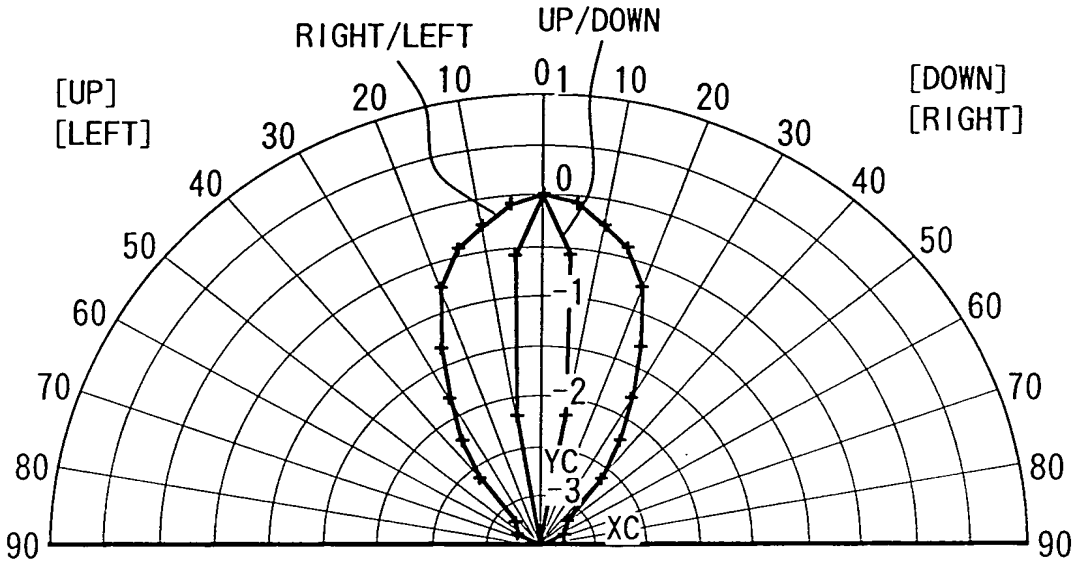


FIG.29


RIGHT/LEFT
UP/DOWN
[UP]
[LEFT]
[DOWN]
[RIGHT]
0
1
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40
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60
70
80
90
-1
-2
YC
-3
XC

FIG.30

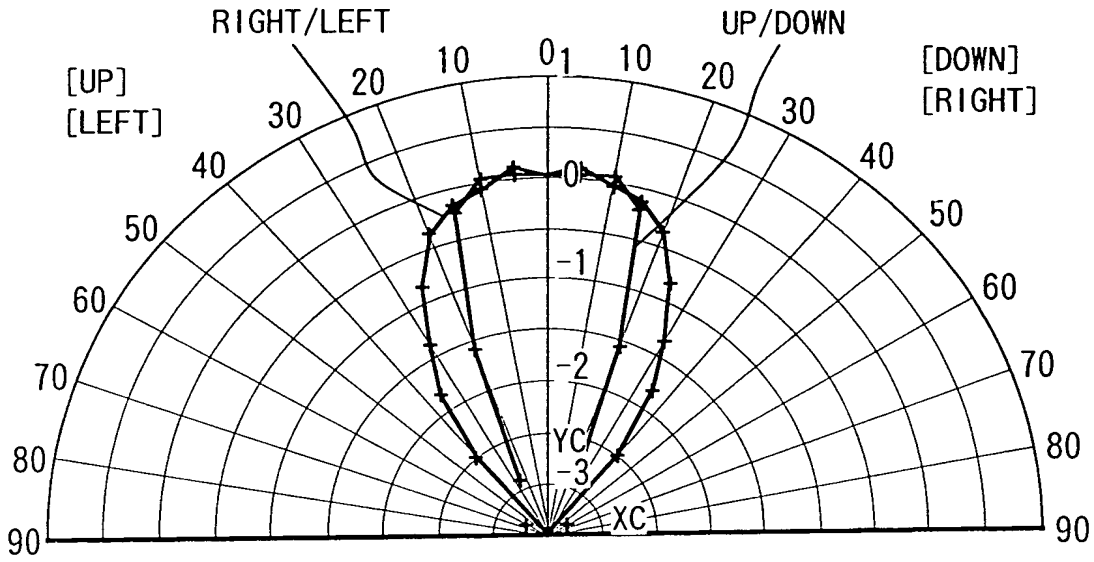

RIGHT/LEFT
UP/DOWN
[UP]
[LEFT]
[DOWN]
[RIGHT]
0
10
20
30
40
50
60
70
80
90
0
-1
-2
-3
YC
XC

FIG.31 (a)

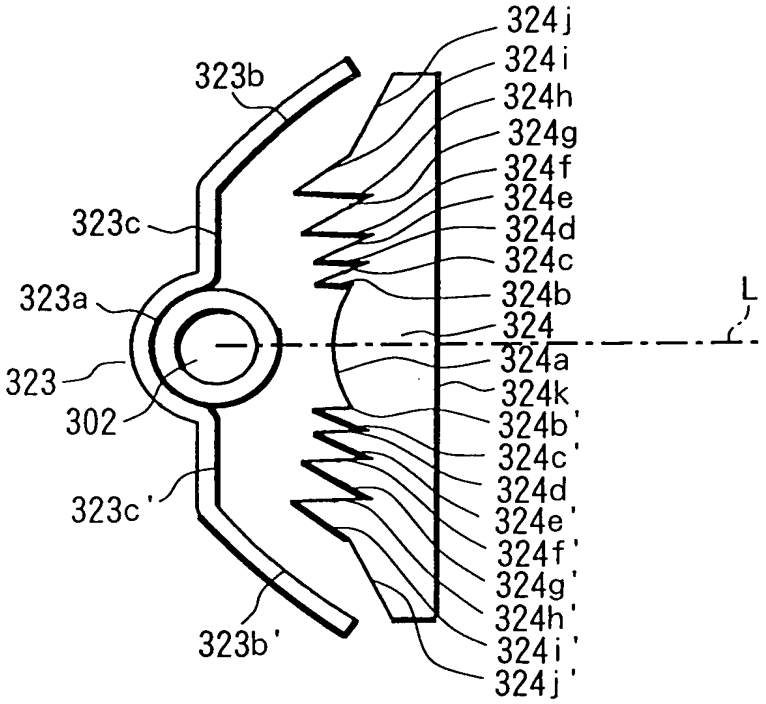

324j
324i
323b
324h
324g
324f
324e
323c
324d
324c
323a
324b
L
324
323
324a
324k
302
324b'
324c'
324d'
323c'
324e'
324f'
324g'
324h'
323b'
324i'
324j'

FIG.31 (b)

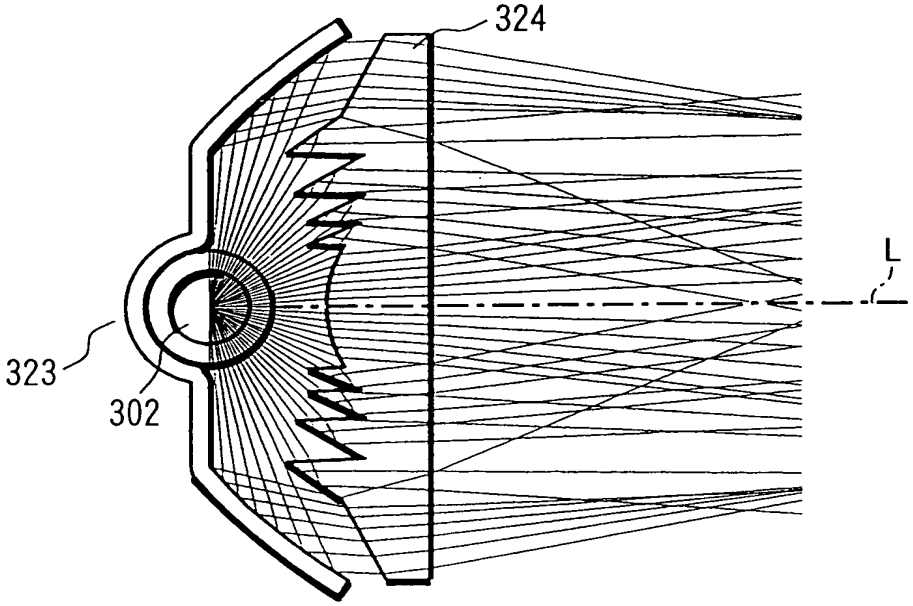


FIG.32 (a)

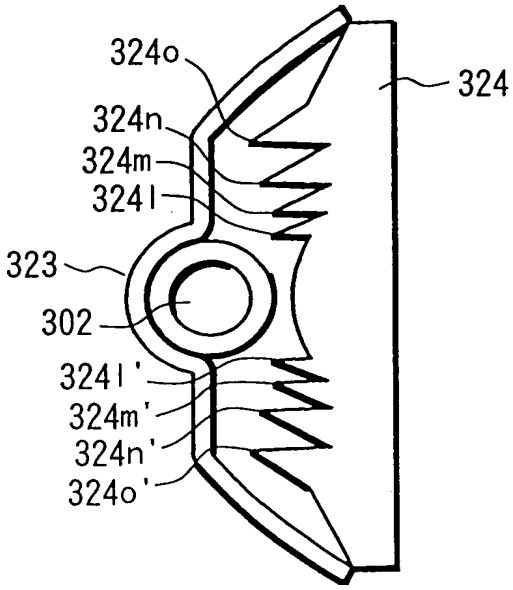


FIG.32 (b)

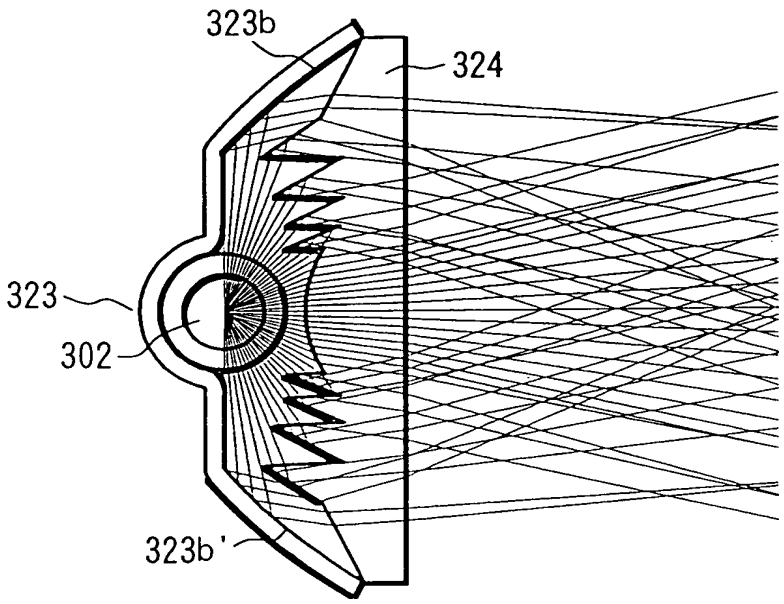


FIG.33

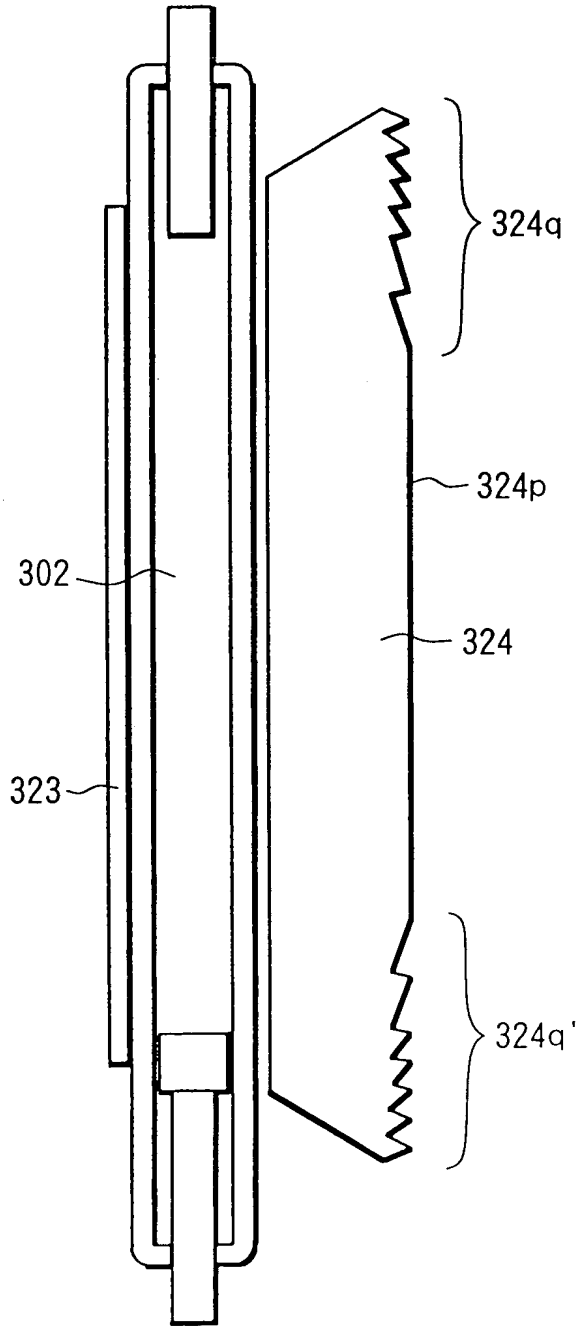


FIG.34

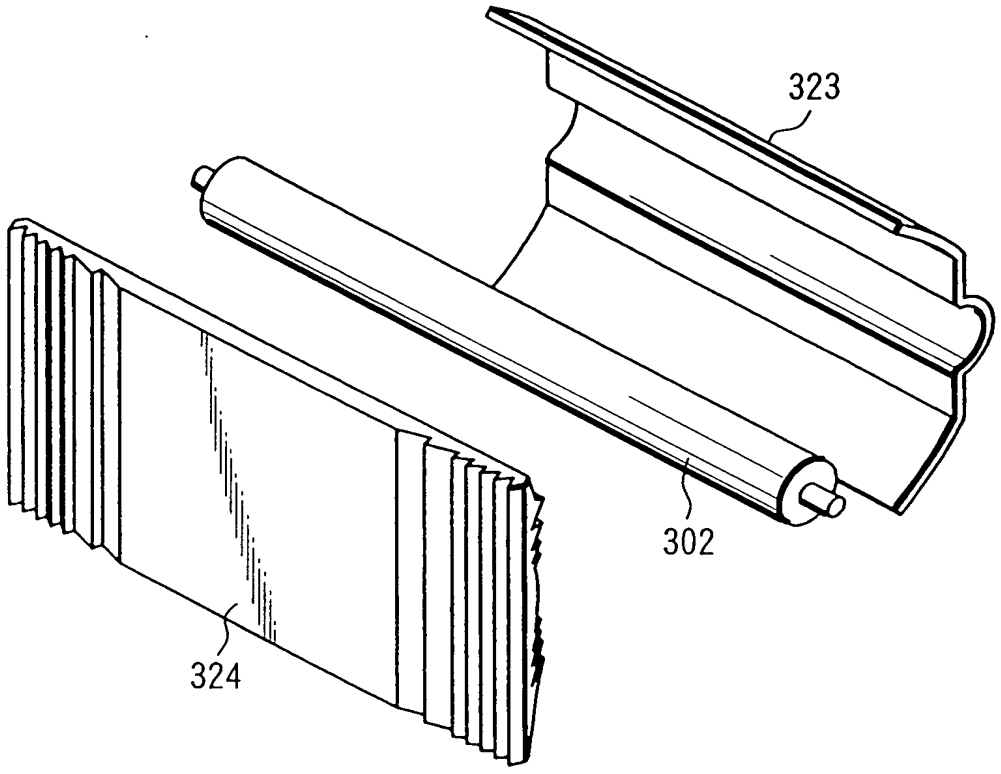


FIG.35 (a)

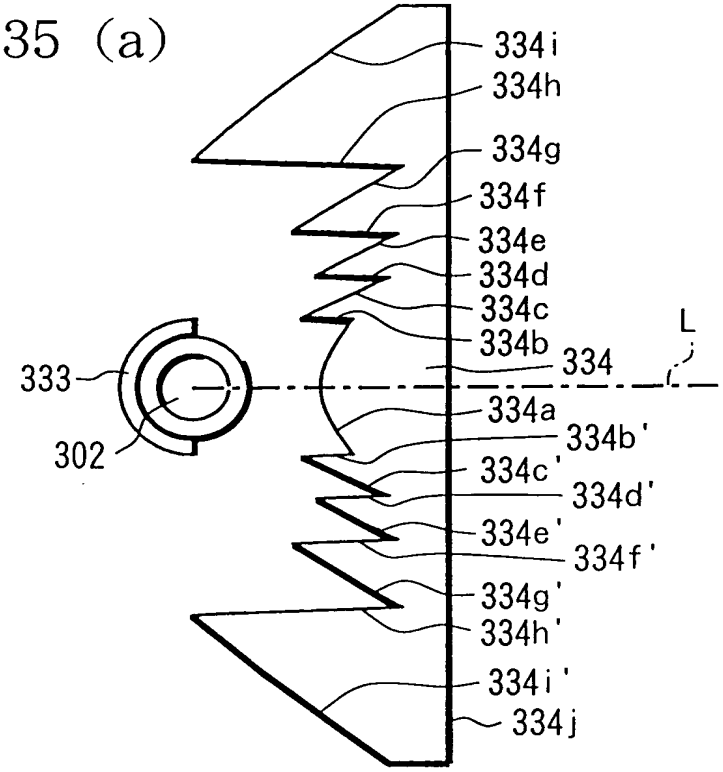

334i
334h
334g
334f
334e
334d
334c
334b
334
L
333
334a
302
334b'
334c'
334d'
334e'
334f'
334g'
334h'
334i'
334j

FIG.35 (b)

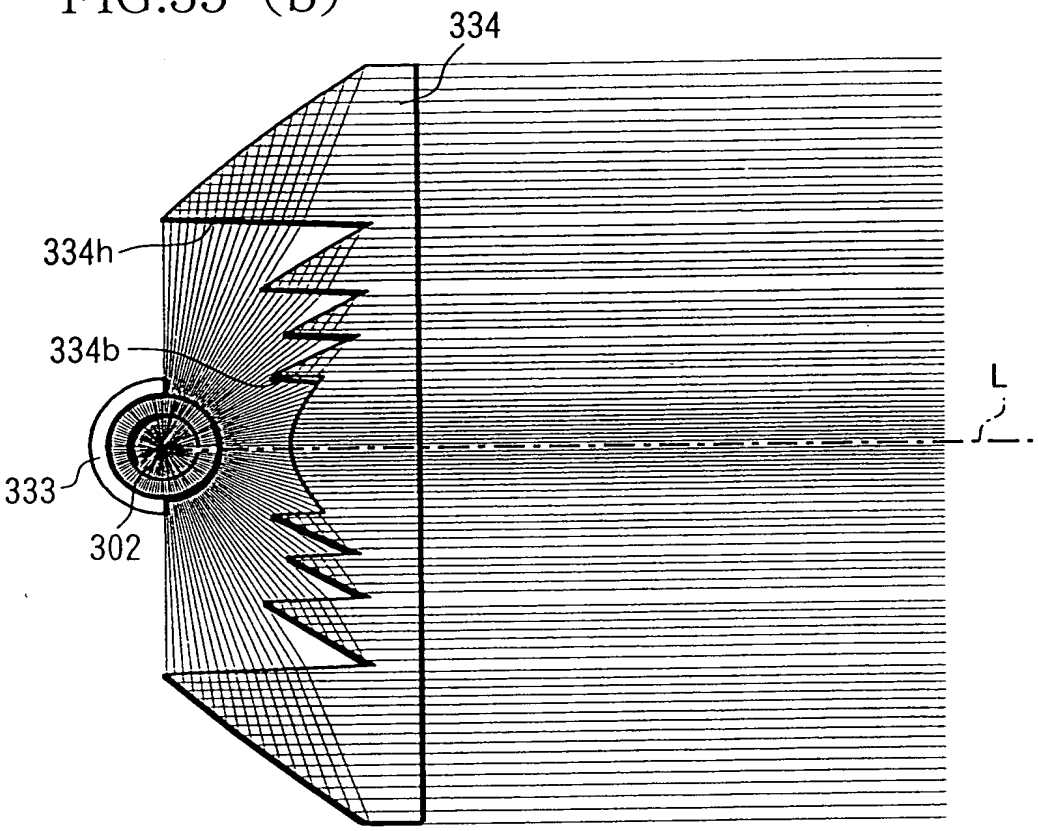


FIG.36 (a)

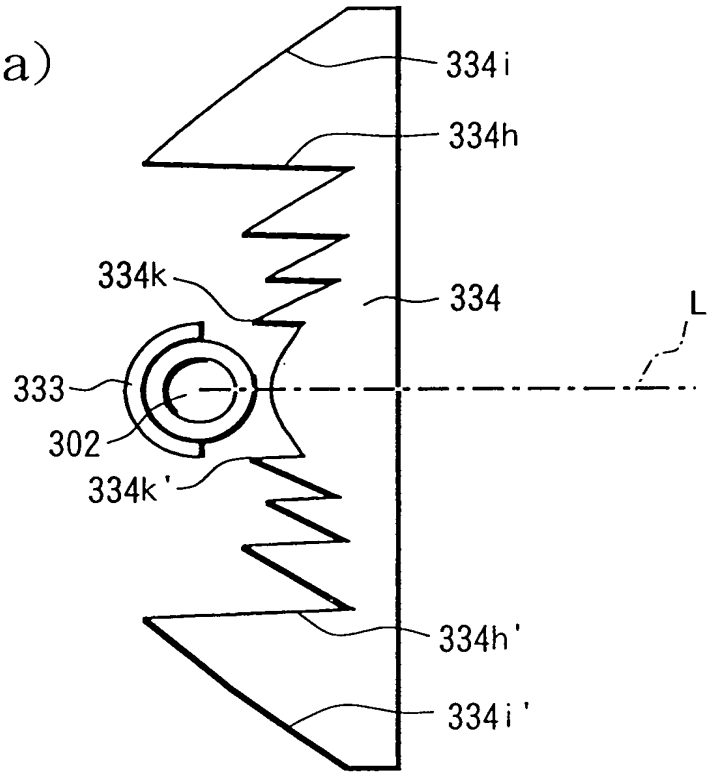


FIG.36 (b)

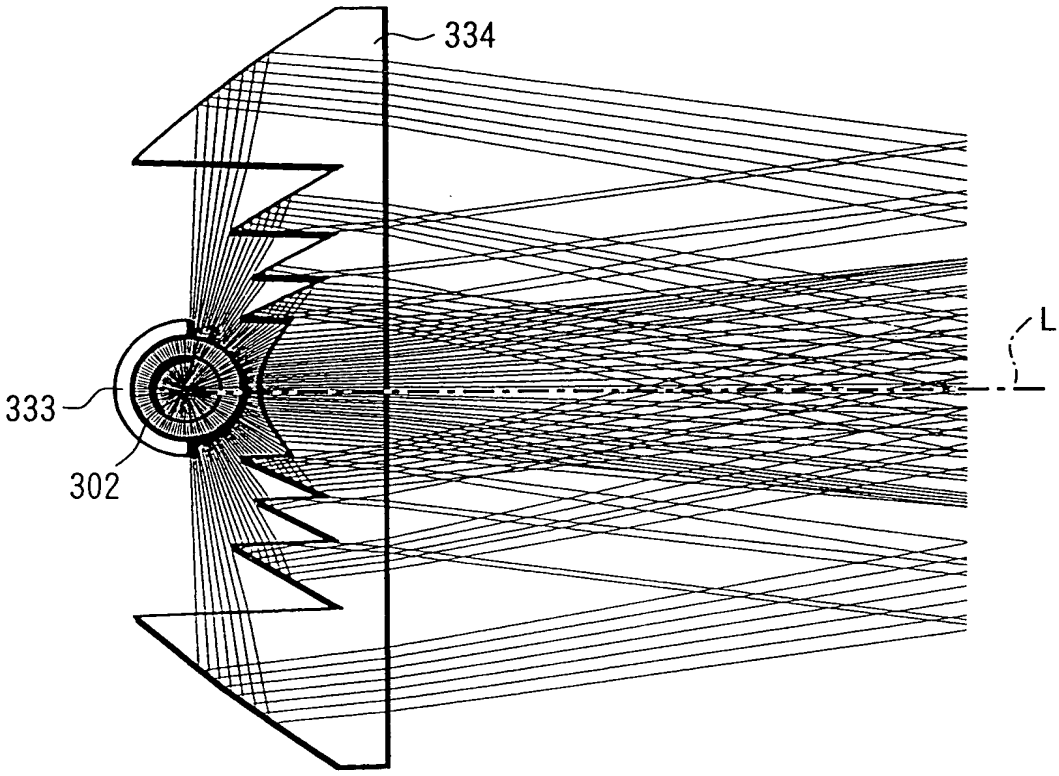


FIG.37 (a)

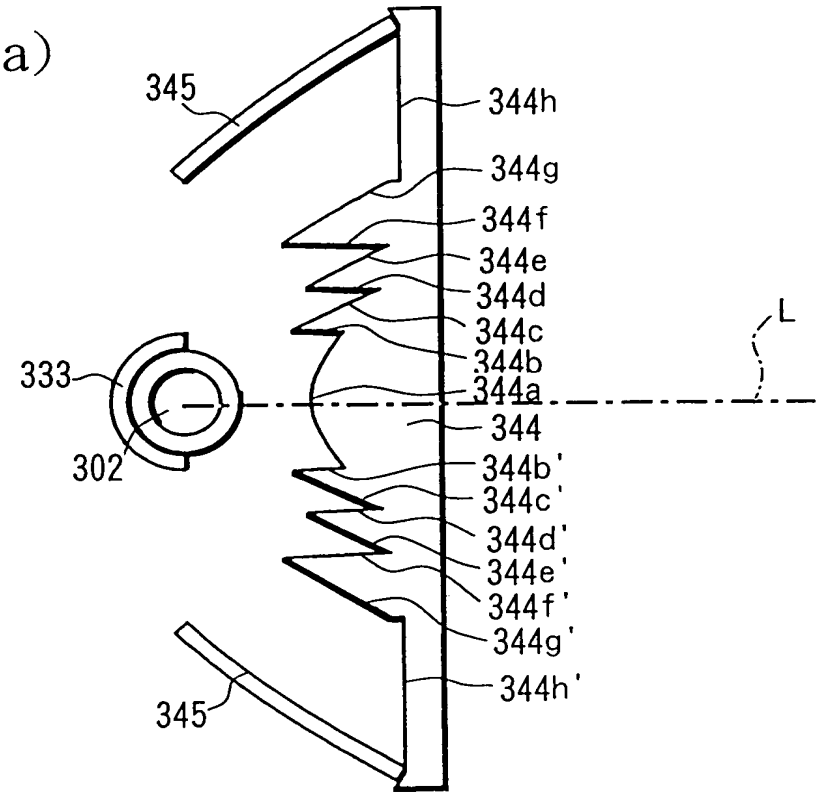

345
344h
344g
344f
344e
344d
344c
344b
344a
344
L
333
302
344b'
344c'
344d'
344e'
344f'
344g'
344h'
345

FIG.37 (b)

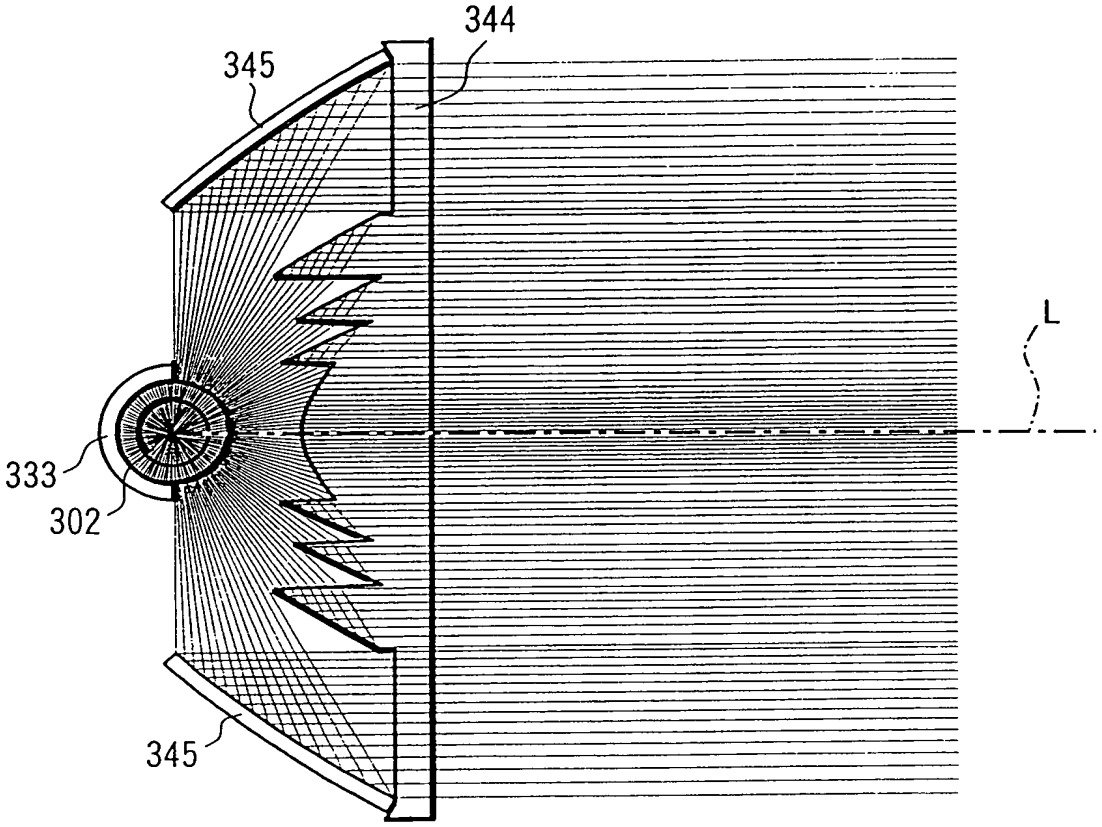


FIG.38 (a)

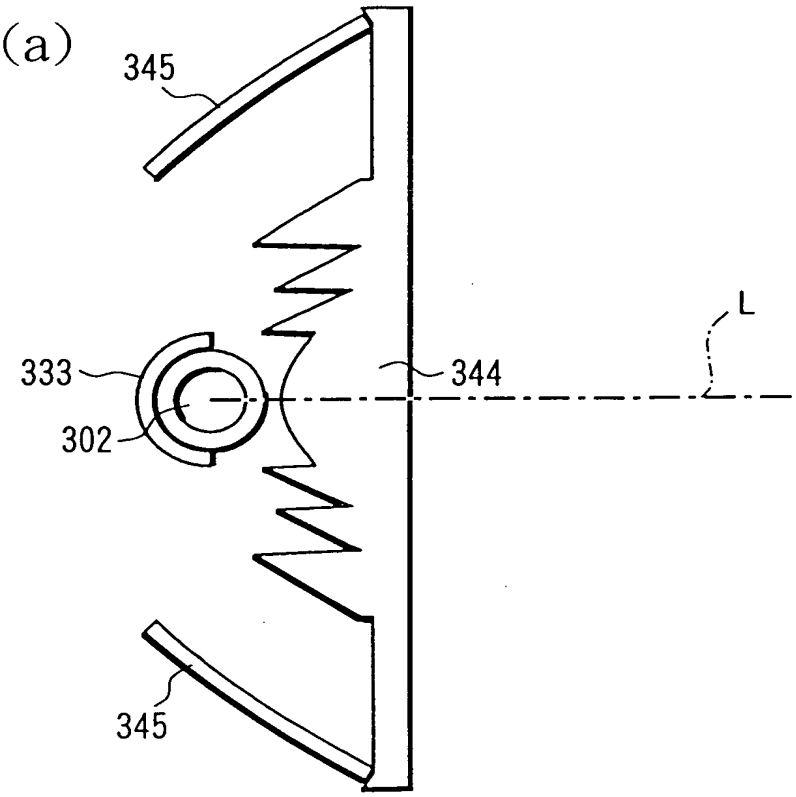


FIG.38 (b)

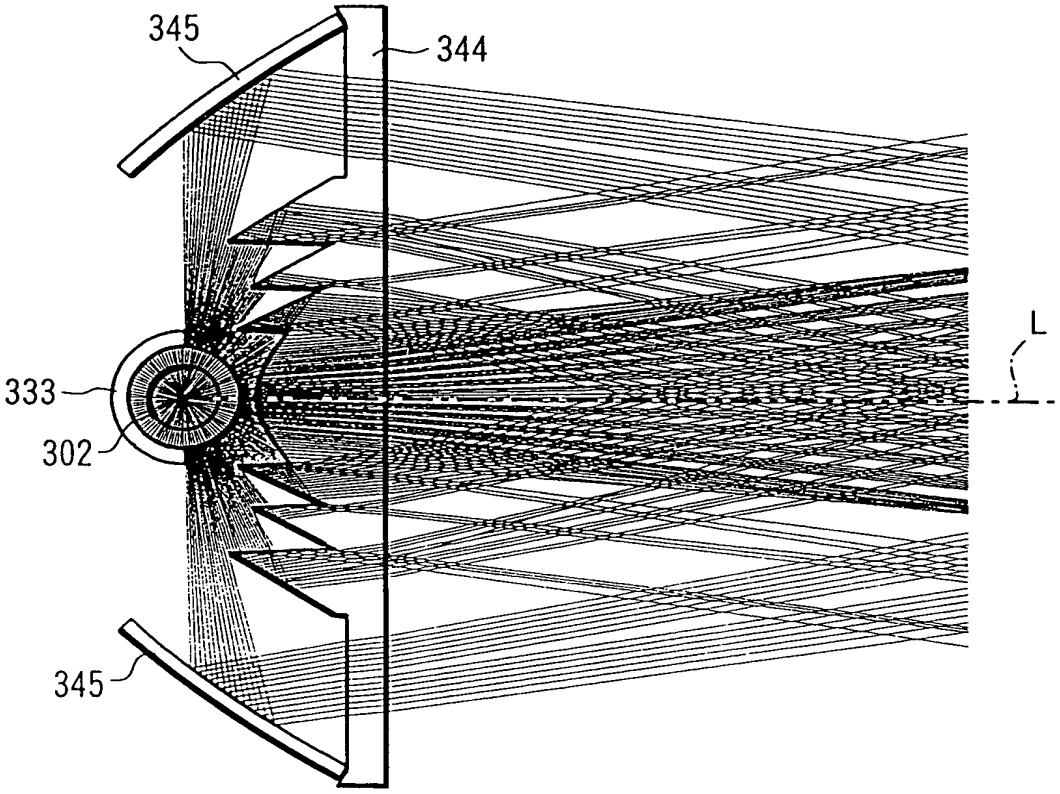
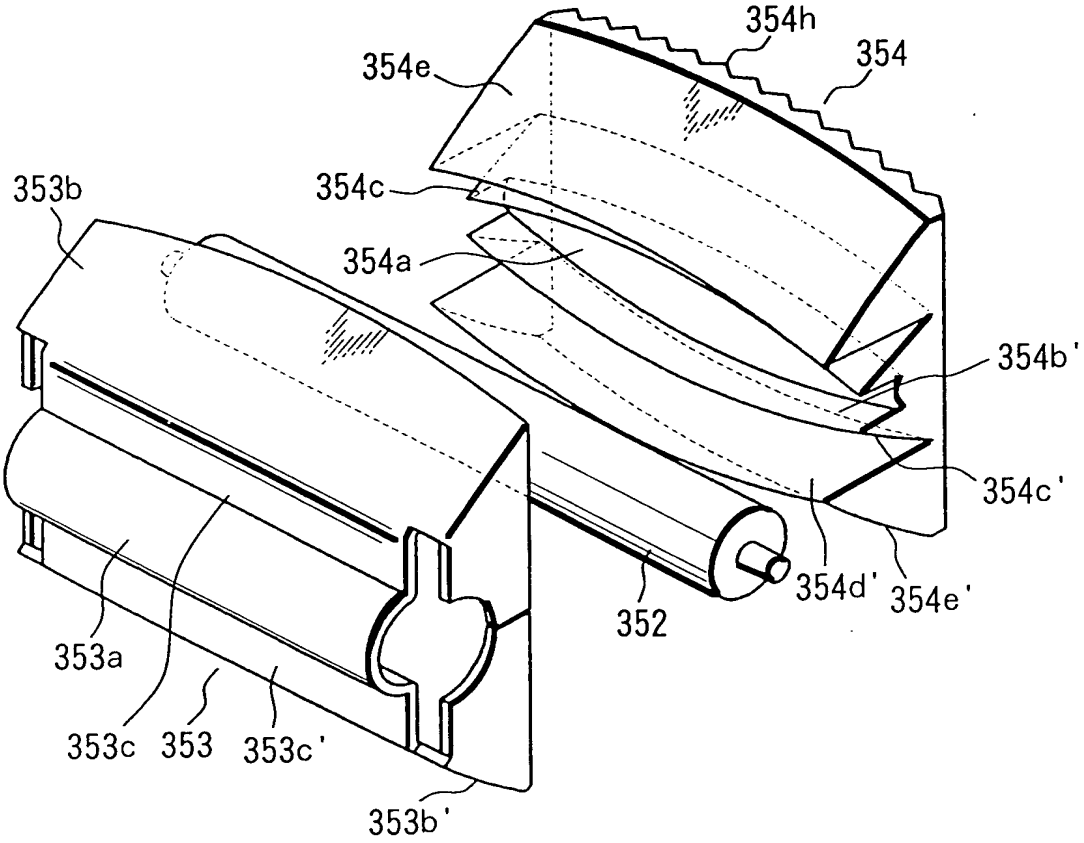


FIG.39


354h
354
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354c
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354a
354b'
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354d'
354e'
352
353a
353c
353
353c'
353b'
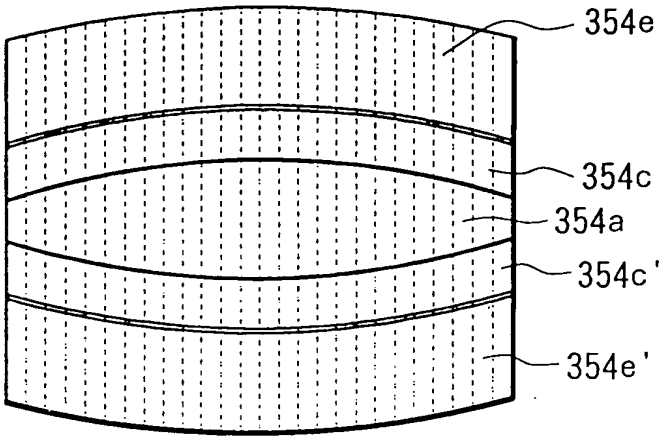
FIG.40